



ELECTRICAL EQUIPMENT FOR HAZARDOUS AREAS

Catalogue



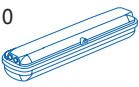
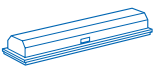
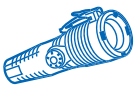




Summary

All technical information in the catalog was correct when printed however for updated and latest product information please contact your local agent or office and see our web site :

www.egsatx.com


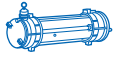

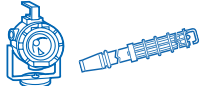



Increased safety EEx "e" lightings

9

Bi-pin fluorescent Normal-emergency fluorescent Mono-pin fluorescent	P.10 P.20 P.30	Metal-glass fluorescent P.40	Safety torch P.44	Round bulkhead P.47	Eclairage zones 2 and 22 fluorescent P.49	Floodlight P.58	Wellglass P.60
							

Flameproof EEx "d" lightings

67

Cylindrical fluorescent P.68	Self-contained units P.79	Floodlight P.92	Wellglass P.99	portable Floodlight and handlamps P.104	Bulkhead P.106 signalisation	Video camera boxes P.118	Sounders P.119
							


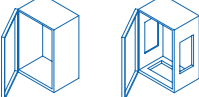

Increased safety EEx "ed" and flameproof EEx "d" plugs and sockets

123

Sockets and plugs 16 & 32A ELV & LV P.124	Sockets and plugs 63 & 125A LV P.131	Cable reel P.133	Sockets and plugs "d" - 16A & 32A LV P.136/137	Sockets and plugs "d" 80 & 125A P.138
				


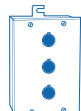


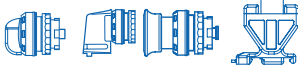




316 L stainless steel "flexible range" EEx "ed" boxes and enclosures

145

Stainless steel (P.200 mm) P.146 enclosures	Stainless steel (P.300 mm) P.148 enclosures	Instrumentation boxes P.152 Stainless steel	Accessories for boxes and enclo- sures stainless steel P.164/165
			



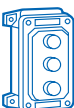

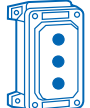
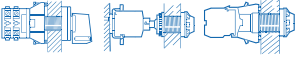
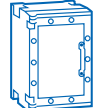
Increased safety EEx "e" enclosures and controls (Polyamide, Polyester, Aluminium and Stainless steel)

169

P.172	P.176	P.177	P.178	Components for control stations P.180	Ammeter P.181	Marina P.186	MCB's P.194	Relays & terminals P.201
								

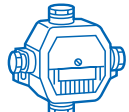
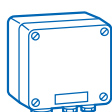
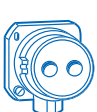
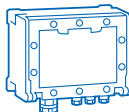
Flameproof EEx "d" enclosures and controls

207

Switches P.208	Enclosures for housing P.210	Control stations P.211	Break glass P.212	Pre-drilling boxes P.213	Components for boxes and enclosures P.216	Enclosures P.220
						

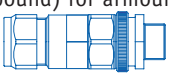





EEx "e", EEx "d", EEx "i" junction boxes

231

Junction boxes P.232	Junction boxes polyester, aluminium and stainless steel P.234	Aluminium round junction boxes P.241	Boxes fitted on request P.242
			

Cable glands EEx "e" and EEx "d"

251

"e" & "d" Cable gland (with elas- tomer compression seal & to with sealing compound) for armoured cable P.252/253	Cable gland for armoured cable "e" P.257 "d" P.262	Polyamide "e" Cable gland for armoured cable P.259	Unions P.265	Flexible unions P.266	Polyamide "i" Cable gland (blue) P.268
					

Silos and storage zone 21 and 22 (dust environment)

273



Lightings and floodlights	274
Switches and control stations	279
Boxes and enclosures	280
Sockets and plugs	284
Junction boxes and cable glands	286

Spare parts and certificates ATEX

290

ATX Guide

302

A complete information on risks of explosion regulation ATEX or IEC and explosionproof material

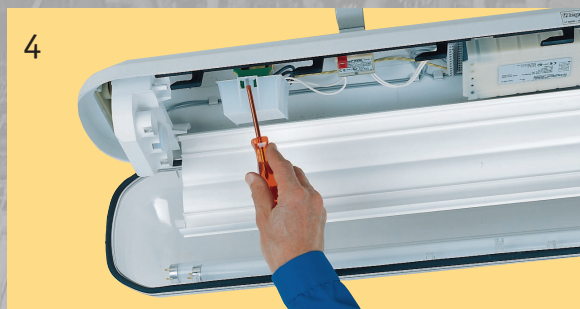
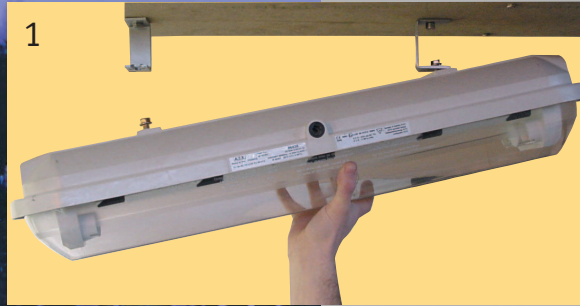
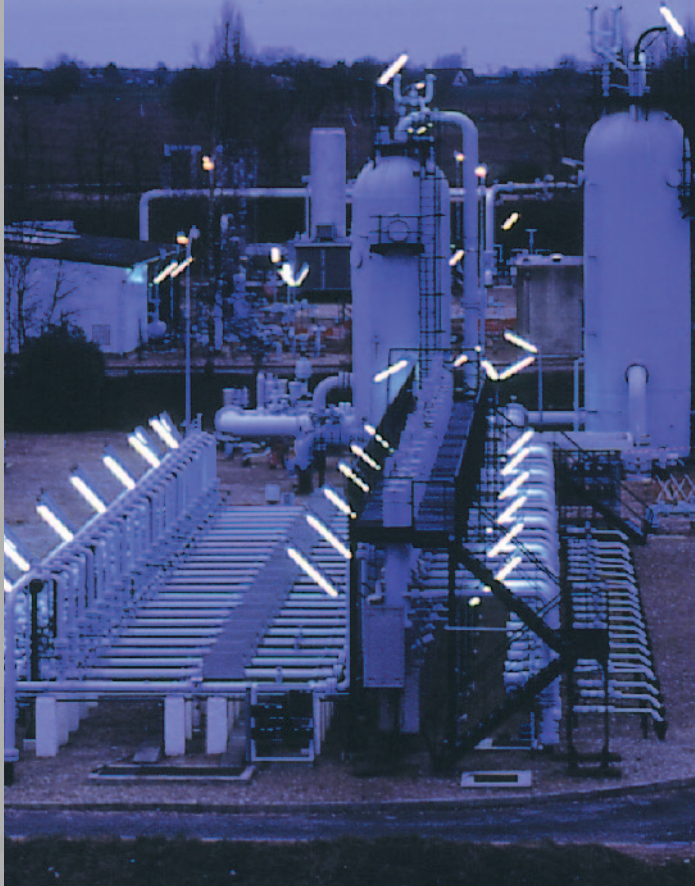
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Easy and safe installation

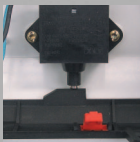
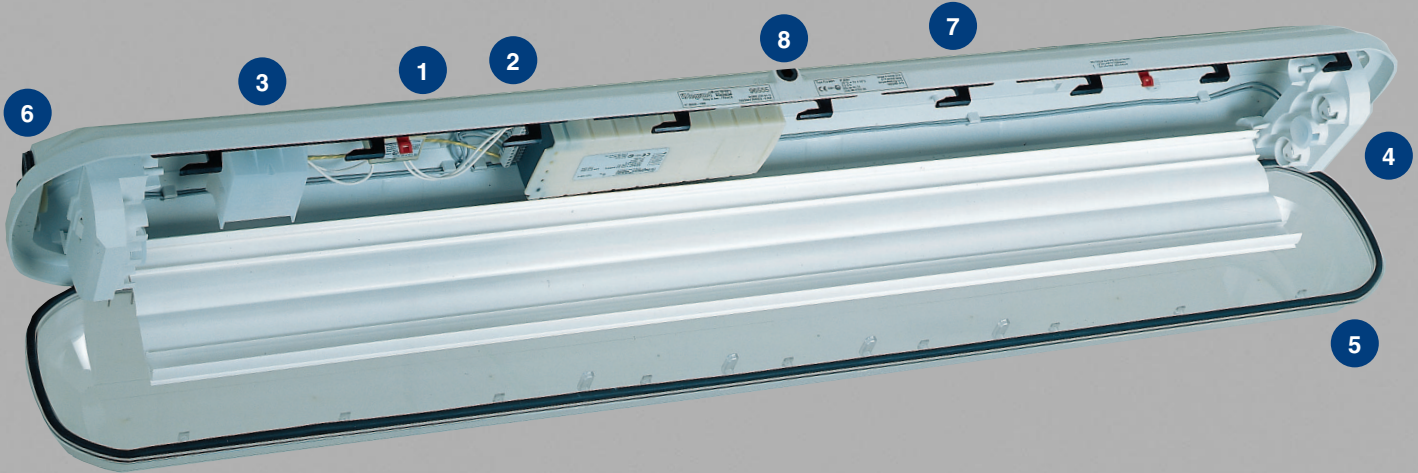


“Safety Plus” :

- 1- Mounting can be completed with one hand
- 2- One handed opening using standard tool
- 3- Reflector swivels easy access
- 4- Terminal shield cover opens
- 5- Easy wiring

ATX: "Safety Plus" every day

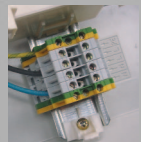
The whole ATX EEx "e" bi-pin fluorescent range offers 8 advantages in terms of installation, maintenance, and servicing in hazardous areas.



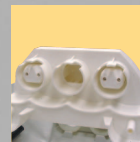
1 Positive safety switch enabling lamps to be changed with main power switched on



2 Quick connector for easy replacement of ballast ensuring wiring safety



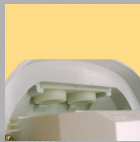
3 IP 2X terminal shield enabling ballast to be worked on with main power present



4 Lampholders with locating device for easy tube fitting



5 Replaceable IP 66/67 weatherproof elastomer seal for easy maintenance



6 Threaded cable entries : robust construction and direct screwing of the cable gland



7 Mechanism prevents energizing the luminaire while cover is open ensuring safe operation

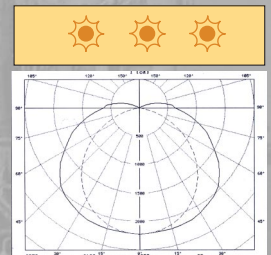


8 Central opening using size 10 Allen key or 6 mm flat screwdriver for easy access

New: 3 tube solutions

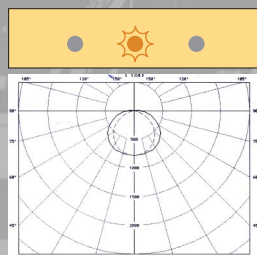
The use of 3 tube versions provides increased light intensity, thus reducing the number of units required.

Units are available on request with alternate use of the tubes providing greater flexibility of use and quicker installation, while reducing the number of boxes + cables... all thanks to the 3 tube solution with dimmer control.

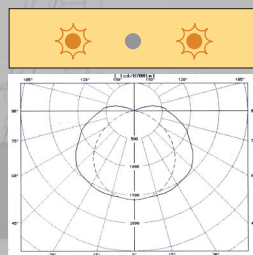


3 tubes lit, standard version without dimmer

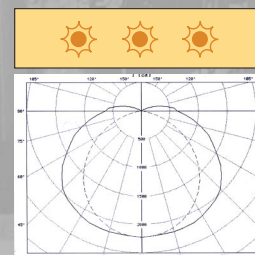
3 tube switch dimmer control on request



Central tube lit



2 tubes lit



3 tubes lit



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110/127 V and 220/240 V bi-pin fluorescent luminaires for non-armoured cable increased safety



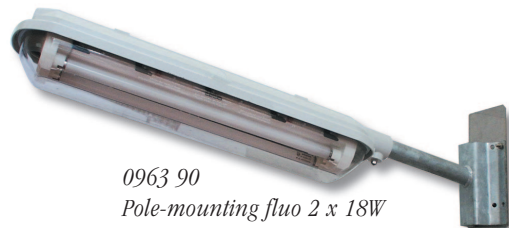
0963 73 Fluo 2 x 58 W



0965 55 Fluo 2 x 36 W



0965 48 Fluo 2 x 18 W

0963 90
Pole-mounting fluo 2 x 18W

18, 36 and 58 W fluorescent luminaires

- Ø 26 mm mono and bi-pin tubes, standard G13 lampholders
- Frequency : 50/60 Hz
- Power supply via high frequency ballast depending on version : 110/127 V ± 10% AC/DC or 220/240 V ~ ± 10%, 198 to 264 V
- Instant start. Power factor ≥ 0.95 2 channel ballast
- Pre-impregnated fibre glass reinforced polyester body
- Polycarbonate diffuser hinged to body
- Polycarbonate multi-parabolic hinged reflector
- High temperature internal wiring
- Elastomer gasket
- Anti-vibration lampholders with spring system
- Power supply to the unit cut off by positive safety switch which operates when diffuser is opened, for replacing tubes with mains power switched on
- If one tube fails, the other tubes remain lit.
- Open and close using an Allen key or flat screwdriver (system automatically protects against over turning of the key or screwdriver)
- IP 2X terminal strip cover for maintaining the ballast and lampholders without cutting off the mains power supply
- Ballast fixed by screws, equipped with an anti-vibration fast connector

Standard single, twin, three-tube versions

- Three M25 threaded cable entries, two at one end and the third at the opposite end. Supplied with:
 - One M25 polyamide cable gland (sealed Ø 8 to 18.5 mm)
 - Two M25 blanking plugs
 - One 5 x 4 mm² max. flexible or 5 x 6 mm² max. rigid connection terminal block

Tube (W) not supplied	Weight (Kg)	Volume (dm ³)	Cat. No. 110/127 V	Cat. No. 220/240 V	Pack
1 x 18	5.5	32.3	0915 47	0965 47	1
2 x 18	5.5	32.3	0915 48	0965 48	1
1 x 36	7.9	54.2	0915 53	0965 53	1
2 x 36	7.9	54.2	0915 55	0965 55	1
3 x 36	9.9	54.2	0915 34	0965 34	1
1 x 58	9	65	0913 72	0963 72	1
2 x 58	9	65	0913 73	0963 73	1
3 x 58	11	65	0915 42	0965 42	1

Twin tube through-wiring version

- Three M25 threaded cable entries, two at one end and the third at the opposite end. Supplied with:
 - Two M25 polyamide cable glands (sealed Ø 8 to 18.5 mm)
 - 1 x M25 blanking plug
 - One connection terminal block at each end: 5 x 4 mm² max. flexible or 5 x 6 mm² max. rigid (2.5 mm² internal wiring)

Part number in bold : fast moving references

Tube (W) not supplied	Weight (Kg)	Volume (dm ³)	Cat. No. 110/127 V	Cat. No. 220/240 V	Pack
2 x 18	5.5	32.3	0915 18	0965 18	1
2 x 36	7.9	54.2	0915 25	0965 25	1
2 x 58	9	65	0913 83	0963 83	1

Twin tube pole mounting version

- For mounting on pole or Ø 42 mm tubular wall-mounting support with 1 integrated M25 cable gland entry (sealed Ø 8 to 18.5 mm)
- Supplied with one 3 x 4 mm² connection terminal block and internal clamp for anchoring the cable (positive safety)

Tube (W) not supplied	Weight (Kg)	Volume (dm ³)	Cat. No. 110/127 V	Cat. No. 220/240 V	Pack
2 x 18	6.2	34.1	0913 90	0963 90	1
2 x 36	8.7	54.2	0913 91	0963 91	1

Fixing accessories

	Cat. No.	Pack
Set of 2 half clamps for fixing to Ø 49 mm (1" 1/2) or Ø 42 mm (1" 1/4) tube	0965 93	1
For fixing to Ø 60 mm (2") tube	0965 91	1
Set of 2 zinc-plated steel M8 ring bolts for suspending the unit	0965 94	1
Ø 42 mm galvanized steel pole for wall mounting	0965 95	1
Set of 2 aluminium brackets for fixing unit to flat surface.	0965 97	1
316 stainless steel version	0965 90	1
Set of 2 aluminium hinged brackets for adjusting direction of luminaire when wall-mounted.	0965 98	1
316 stainless steel version	0965 74	1
Set of 2 zinc-plated steel brackets for quick fixing with one hand	0965 96	1
316 stainless steel version	0965 89	1
Fall prevention fixing kit (1.20 m stainless steel chain) for M25 cable entry	0964 05	1

For special options, please consult us:

- Ø 38 mm bi-pin tubes
 - Ø 38 mm bi-pin tubes specially designed for low temperatures
 - 3-tube "dimnable"
 - Special protection of the diffuser against severe chemical attack
 - Lens fall prevention fixing kit
- Dimensions of fixing accessories (see page 36-37)**
Installation and connection method (see page 38-39)
Spare parts (see page 290)

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- According to CENELEC:
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18-19
 - EC 0081 II 2 G for gas EEx ed II C T4 or T5 to Ta max. + 40° C horizontal position, lighting facing downwards.
 - EC 0081 II 2 D T = + 85° C : for dust
 - According to IEC:
 - Conforming to IEC standards 60079-0/1/7 Ex eds II C T4 or T5 to Ta max. 40°C horizontal position, lighting facing downwards.
- DIP A21 TA = + 85° C

Approvals :

- Approved type FLe
- CENELEC LCIE 98 ATEX 6004
- IEC LCIE Ex 98.012
- **CE** declaration of conformity No. 50201
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaire
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”
- Conforming to electromagnetic compatibility (EMC) standards
 - EN 55015 - EN 61547

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Mechanical resistance: IK10 according to EN 50102

Operating temperature :

- 20° C to + 55° C

Anticorrosion treatment and climate protection : see page G50

Positive safety :

- Safety switch for opening luminaire, see glossary
- Anti-wiring-error connector

“Dimmable” 3-tube operation :

- Alternate use possible (1, 2 or 3 tubes) controlled by a double switch, available on request

Central tube lit



2 tubes lit



3 tubes lit



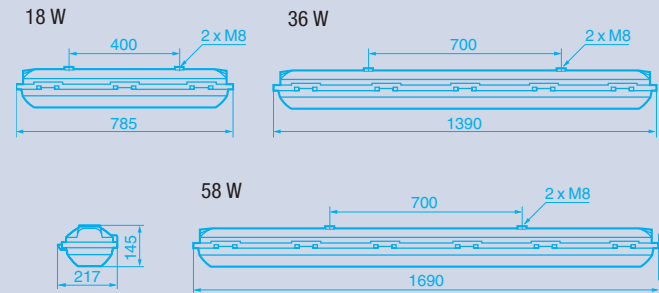
Product features/customer benefits

- Positive safety switch : **“Safety Plus”**
- Multi-parabolic reflector : **increased efficiency**
- Ballast with plug in connectors : **rapid, error-free maintenance**
- Opening system automatically protected : **no over turning of the key or screwdriver possible**
- Standard 3-tube : **increased light intensity, fewer units, installation possible at increased height**
- 3-tube “dimmable” : **alternate use of the tubes with a double switch, flexibility of use**

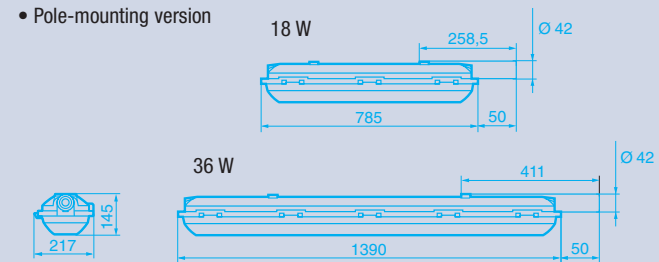
Zone 1 & 2 - 21 & 22		ATEX	IEC	EC	II2 G/D
EEx ed IIC	T4 or T5	T = 85°C	IP 66/67	IK 10	

Dimensions (mm) :

- Standard/through-wiring version



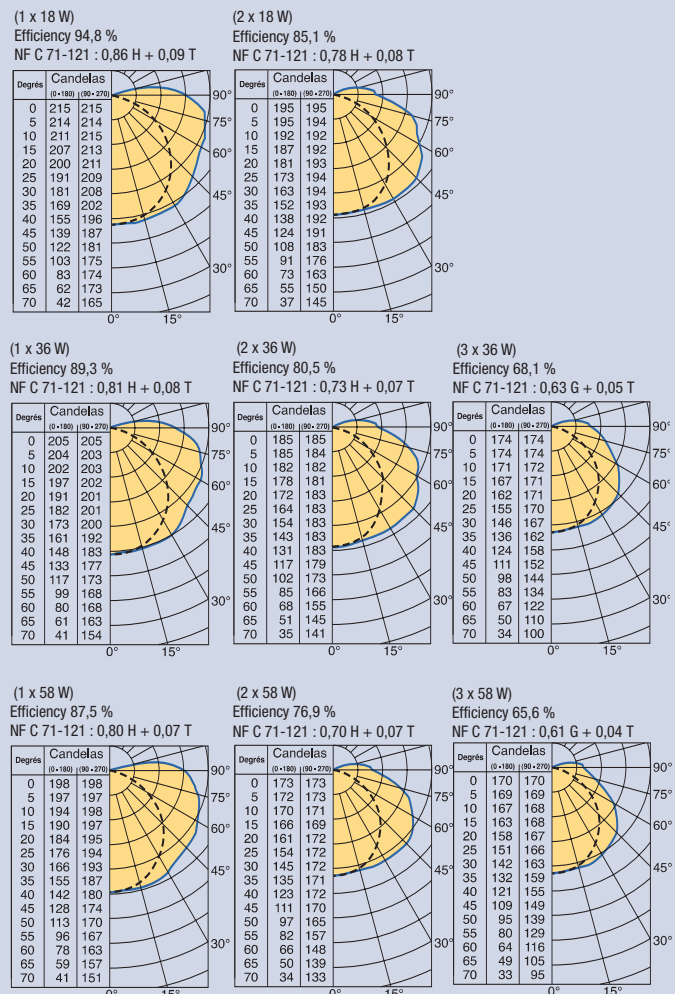
- Pole-mounting version



Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120:

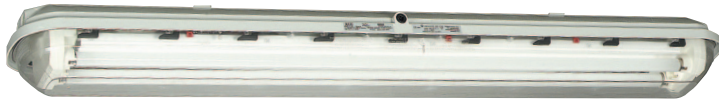
- Luminaire symbol according to NF C 71-121

— longitudinal
- - - transverse

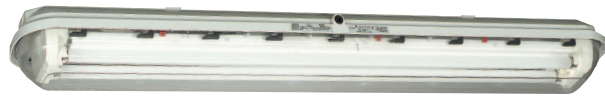


Data sheet available on request

110/127 V and 220/240 V bi-pin fluorescent luminaires for armoured cable increased safety



0963 43 Fluo 2 x 58 W



0965 45 Fluo 2 x 36 W



0965 38 Fluo 2 x 18 W

18, 36 and 58 W fluorescent luminaires

- Ø 26 mm bi-pin tubes, standard G 13 lampholders
- Frequency: 50/60 Hz
- Power supply via high frequency ballast depending on version : 110/127 V ± 10% AC/DC or 220/240 V ~ ± 10%, 198 to 264 V
- Instant start. Power factor ≥ 0.95 2 channel ballast
- Pre-impregnated fibre glass reinforced polyester body
- Polycarbonate diffuser hinged to body
- Polycarbonate multi-parabolic hinged reflector
- High temperature internal wiring
- Elastomer gasket
- Anti-vibration lampholders with spring system
- Power supply to the unit cut off by positive safety switch which operates when diffuser is opened, for replacing tubes with mains power switched on
- If one tube fails, the other tubes remain lit.
- Open and close using an Allen key or flat screwdriver (system automatically protects against over turning)
- IP 2X terminal strip cover for maintaining the ballast and lampholders without cutting off the mains power supply
- Ballast fixed by screws, equipped with an anti-vibration fast connector

Standard single, twin, three-tube version

- Two M20 threaded cable entries with earth continuity plate for armoured cables at one end (cable gland not supplied)
- One clearance hole for M20 cable gland at the opposite end
- Supplied with:
 - Two M20 blanking plugs and one M20 locknut
 - One 5 x 4 mm² max. flexible or 5 x 6 mm² max. rigid connection terminal block

Tube (W) not supplied	Weight (Kg)	Volume (dm ³)	Cat. No. 110/127 V	Cat. No. 220/240 V	Pack
1 x 18	5.5	32.3	0915 35	0965 35	1
2 x 18	5.5	32.3	0915 38	0965 38	1
1 x 36	7.9	54.2	0915 43	0965 43	1
2 x 36	7.9	54.2	0915 45	0965 45	1
3 x 36	9.9	54.2	0915 39	0965 39	1
1 x 58	9	65	0913 42	0963 42	1
2 x 58	9	65	0913 43	0963 43	1
3 x 58	11	65	0915 49	0965 49	1

Through-wiring version with possibility of phase balancing

- Three M20 threaded cable entries with earth continuity plate for armoured cables, 2 cable entries at one end, and the third at the opposite end (cable gland not supplied)
- Supplied with:
 - 1 x M20 blanking plug
 - One 5 x 4 mm² max. flexible or 5 x 6 mm² max. rigid (2.5 mm² internal wiring) connection terminal block at each end

Tube (W) not supplied	Weight (Kg)	Volume (dm ³)	Cat. No. 110/127 V	Cat. No. 220/240 V	Pack
2 x 18	5.5	32.3	0913 50	0963 50	1
2 x 36	7.9	54.2	0915 15	0965 15	1
2 x 58	9	65	0913 53	0963 53	1

Fixing accessories

	Cat. No.	Pack
Set of 2 half clamps for fixing to Ø 49 mm (1" 1/2) or Ø 42 mm (1" 1/4) tube	0965 93	1
For fixing to Ø 60 mm (2") tube:	0965 91	1
Set of 2 zinc-plated steel M8 ring bolts for suspending the unit	0965 94	1
Set of 2 aluminium brackets for fixing unit to flat surface.	0965 97	1
316 stainless steel version	0965 90	1
Set of 2 aluminium hinged brackets for adjusting direction of luminaire when wall-mounted.	0965 98	1
316 stainless steel version	0965 74	1
Set of 2 zinc-plated brackets for quick fixing with one hand	0965 96	1
316 stainless steel version	0965 89	1
Fall prevention fixing kit (1.20 m stainless steel chain) for M20 cable entry	0964 06	1

For special options, please consult us:

- Ø 38 mm bi-pin tubes
 - Ø 38 mm bi-pin tubes specially designed for low temperatures
 - 3-tube "dimmable"
 - Special protection of the diffuser against severe chemical attack
 - Lens fall prevention fixing kit
- Dimensions of fixing accessories (see page 36-37)
 Installation and connection method (see page 38-39)
 Spare parts (see page 290)
 Cable glands for armoured cable (see pages 252-262)

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- According to CENELEC:
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18-19
 - EC 0081 II 2 G for gas EEx ed II C T4 or T5 to Ta max. + 40° C horizontal position, lighting facing downwards
 - EC 0081 II 2 D T = + 85°C: for dust
- According to IEC:
 - Conforming to IEC standards 60079-0/1/7 Ex eds II C T4 or T5 to Ta max. + 40° C horizontal position, lighting facing downwards.
 - DIP A21 TA = + 85° C

Approvals :

- Approved type Fle
- CENELEC LCIE 98 ATEX 6004
- IEC LCIE Ex 98.012
- declaration of conformity No. 50201
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaire
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”
- Conforming to electromagnetic compatibility (EMC) standards
 - EN 55015
 - EN 61547

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Mechanical resistance: IK10 according to EN 50102

Operating temperature :

- 20° C to + 55° C

Anticorrosion treatment and climate protection : see page G50

Positive safety :

- Safety switch for opening luminaire, see glossary
- Anti-wiring-error connector

“Dimmable” 3-tube operation :

- Alternate use possible (1, 2 or 3 tubes) controlled by a double switch, available on request

Central tube lit



2 tubes lit



3 tubes lit



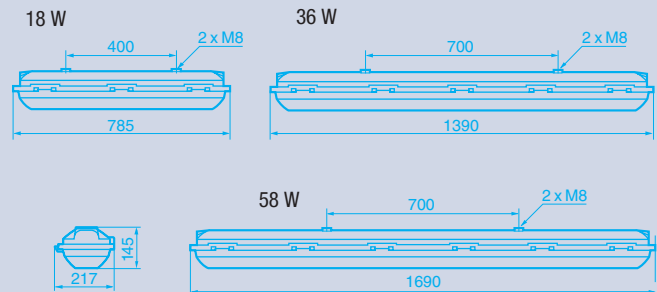
Product features/customer benefits

- Positive safety switch : “**Safety Plus**”
- Multi-parabolic reflector : **increased efficiency**
- Ballast with plug in connectors : **rapid, error-free maintenance**
- Opening system automatically protected : **no over turning possible**
- Standard 3-tube : **increased light intensity, fewer units, installation possible at increased height**
- 3-tube “dimmable” : **alternate use of the tubes with a double switch, flexibility of use**

Zone 1 & 2 - 21 & 22		ATEX	IEC	EC	II2 G/D
EEx ed IIC	T4 or T5	T = 85°C	IP 66/67	IK 10	

Dimensions (mm) :

- Standard/through-wiring version



Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120 :

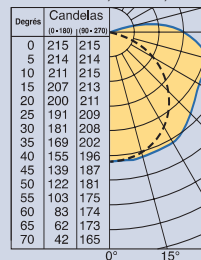
- Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

(1 x 18 W)

Efficiency 94,8 %

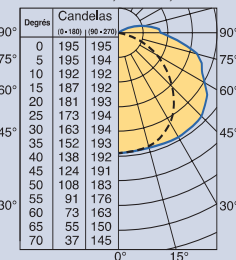
NF C 71-121 : 0,86 H + 0,09 T



(2 x 18 W)

Efficiency 85,1 %

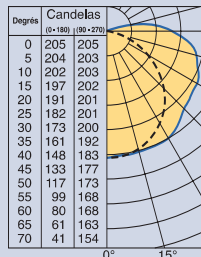
NF C 71-121 : 0,78 H + 0,08 T



(1 x 36 W)

Efficiency 89,3 %

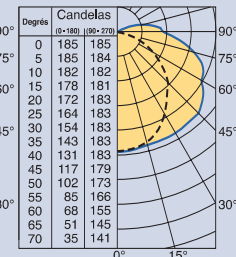
NF C 71-121 : 0,81 H + 0,08 T



(2 x 36 W)

Efficiency 80,5 %

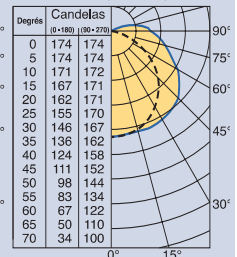
NF C 71-121 : 0,73 H + 0,07 T



(3 x 36 W)

Efficiency 68,1 %

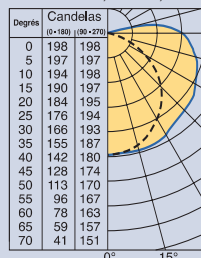
NF C 71-121 : 0,63 G + 0,05 T



(1 x 58 W)

Efficiency 87,5 %

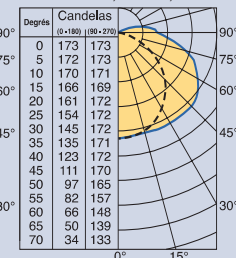
NF C 71-121 : 0,80 H + 0,07 T



(2 x 58 W)

Efficiency 76,9 %

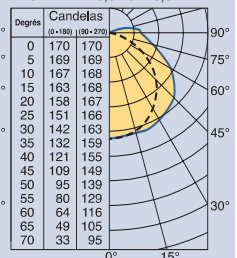
NF C 71-121 : 0,70 H + 0,07 T



(3 x 58 W)

Efficiency 65,6 %

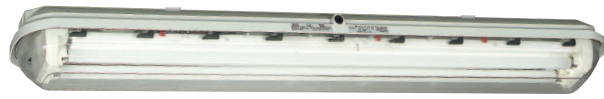
NF C 71-121 : 0,61 G + 0,04 T



110/127 V or 220/240 V bi-pin single phase loop in loop out connection and through wiring fluorescent luminaires for armoured cable **increased safety**



0963 09 Fluo 2 x 58 W



0963 08 Fluo 2 x 36 W



0963 07 Fluo 2 x 18 W






18, 36 and 58 W fluorescent luminaires

- Ø 26 mm bi-pin tubes, standard G 13 lampholders
- Designed for single phase mains supplies with a choice of possible installation methods: terminal position loop in loop out connection and through wiring
- Frequency: 50/60 Hz
- Power supply via high frequency ballast depending on version : 110/127 V ± 10% AC/DC or 220/240 V ~ ± 10%, 198 to 264 V
- Instant start. Power factor ≥ 0.95 2 channel ballast
- Pre-impregnated fibre glass reinforced polyester body
- Polycarbonate diffuser hinged to body
- Polycarbonate multi-parabolic hinged reflector
- High temperature internal wiring
- Elastomer gasket
- Anti-vibration lampholders with spring system
- Power supply to the unit cut off by positive safety switch which operates when diffuser is opened, for replacing tubes with mains power switched on
- If one tube fails, the other tube remains lit.
- Open and close using an Allen key or flat screwdriver (system automatically protects against over turning)
- IP 2X terminal strip cover for maintaining the ballast and lampholders without cutting off the mains power supply
- Ballast fixed by screws, equipped with a fast connector
- Three M20 threaded cable entries with earthing plates for armoured cable (cable gland not supplied)
- Supplied with:
 - Two M20 blanking plugs
 - One connection terminal block at each end
4 x 4mm² flexible or 4 x 6mm² rigid max., including 1 earth terminal

Single phase dual loop in loop out connection/through wiring version

Tube (W)	Weight (Kg)	Volume (dm ³)	Cat. No. 110/127 V	Cat. No. 220/240 V	Pack
2 x 18	5.5	32.3	0913 07	0963 07	1
2 x 36	7.9	54.2	0913 08	0963 08	1
2 x 58	9	65	0913 09	0963 09	1

Fixing accessories

	Cat. No.	Pack
Set of 2 half clamps for fixing to Ø 49 mm (1" 1/2) or Ø 42 mm (1" 1/4) tube	 0965 93	1
For fixing to Ø 60 mm (2") tube	0965 91	1
Set of 2 zinc-plated steel M8 ring bolts for suspending the unit	 0965 94	1
Set of 2 aluminium brackets for fixing unit to flat surface.	 0965 97	1
316 stainless steel version	0965 90	1
Set of 2 aluminium hinged brackets for adjusting direction of luminaire when wall-mounted.	 0965 98	1
316 stainless steel version	0965 74	1
Set of 2 zinc-plated steel brackets for quick fixing with one hand	 0965 96	1
316 stainless steel version	0965 89	1
Fall prevention fixing kit (1.20 m stainless steel chain) for M20 cable entry	0964 06	1

For special options, please consult us:

- Ø 38 mm bi-pin tubes
- Ø 38 mm bi-pin tubes specially designed for low temperatures
- 3-tube "dimmable"
- Special protection of the diffuser against severe chemical attack
- Lens fall prevention fixing kit

Dimensions of fixing accessories (see page 36-37)

Installation and connection method (see page 38,39)

Spare parts (see page 290)

Cable glands for armoured cable (see pages 252-262)

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- According to CENELEC:
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18-19
 - EC 0081 II 2 G: for gas EEx ed II C T4 or T5 to Ta max. + 40° C horizontal position, lighting facing downwards.
 - EC 0081 II 2 D T = +85° C for dust
 - According to IEC:
 - Conforming to IEC standards 60079-0/1/7 Ex eds II C T4 or T5 to Ta max. 40°C horizontal position, lighting facing downwards.
- DIP A21 TA = + 85° C

Approvals :

- Approved type FLe
- CENELEC LCIE 98 ATEX 6004
- IEC LCIE Ex 98.012
- declaration of conformity No. 50201
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”
- Conforming to electromagnetic compatibility (EMC) standards
 - EN 55015
 - EN 61547

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Impact resistance: IK10 according to EN 50102

Operating temperature :

- 20° C to + 55° C

Anticorrosion treatment and climate protection : see page G50

Positive safety :

- Safety switch for opening luminaire, see glossary
- Anti-wiring-error connector

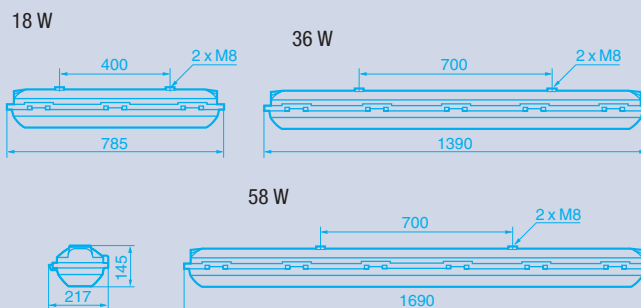
Product features/customer benefits

- Positive safety switch : **“Safety Plus”**
- Multi-parabolic reflector : **increased efficiency**
- Ballast with plug in connectors : **rapid error-free maintenance**
- Opening system automatically protected : **no over turning possible**

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II2 G/D
EEx ed IIC	T4 or T5	T = 85°C	IP 66/67	IK 10

Dimensions (mm) :

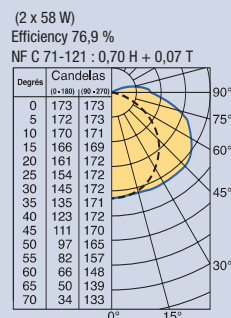
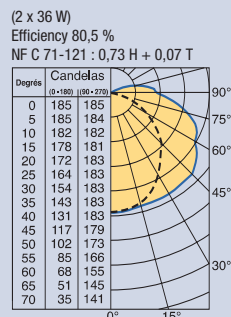
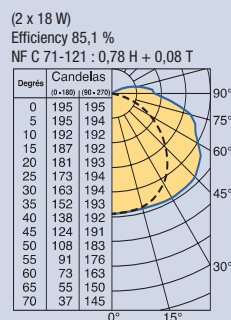
- Single phase loop in loop out connection/through wiring version



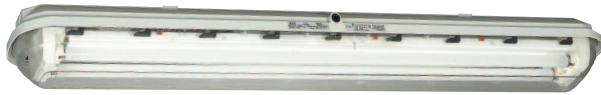
Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120 :

- Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse



254 V bi-pin fluorescent luminaires for armoured or non-armoured cable increased safety



0963 64 Fluo 2 x 36 W



0963 63 Fluo 2 x 18 W

18 and 36 W fluorescent luminaires

- Ø 26 mm bi-pin tubes, standard G 13 lampholders
- Frequency: 50/60 Hz
- Power supply via high frequency electronic ballast 254 V + 6% - 10%, 229 to 269 V
- Instant start. Power factor ≥ 0.95 2 channel ballast
- Pre-impregnated fibre glass reinforced polyester body
- Polycarbonate diffuser hinged to body
- Polycarbonate multi-parabolic hinged reflector
- High temperature internal wiring
- Elastomer gasket
- Anti-vibration lampholders with spring system
- Power supply to the unit cut off by positive safety switch which operates when diffuser is opened, for replacing tubes with mains power switched on
- If one tube fails, the other tube remains lit.
- Open and close using an Allen key or flat screwdriver (system can be disengaged at end of travel)
- IP 2X terminal strip cover for maintaining the ballast and lampholders without cutting off the mains power supply
- Ballast fixed by screws, equipped with a fast connector

Standard twin version for non-armoured cable

- Three threaded cable entries, 2 at one end and the third at the opposite end for M25 cable gland.
- Supplied with:
 - One M25 polyamide cable gland (sealed Ø 8 to 18.5 mm)
 - Two M25 blanking plugs
 - One 5 x 4 mm² max. flexible or 5 x 6 mm² max. rigid connection terminal block

Tube (W) not supplied	Weight (Kg)	Volume (dm ³)	Cat. No. 254V	Pack
2 x 18	5.5	32.3	0963 63	1
2 x 36	7.9	54.2	0963 64	1





Standard twin version for armoured cable

- Two M20 threaded cable entries with earthing plate for armoured cable at one end (cable gland not supplied)
- One clearance hole for M20 cable gland at the opposite end
- Supplied with
 - Two M20 blanking plugs and one M20 locknut
 - One 5 x 4 mm² max. flexible or 5 x 6 mm² max. rigid connection terminal block

Tube (W) not supplied	Weight (Kg)	Volume (dm ³)	Cat. No. 254V	Pack
2 x 18	5.5	32.3	0963 74	1
2 x 36	7.9	54.2	0963 75	1

Part number in bold : fast moving references

Fixing accessories

	Cat. No.	Pack
Set of 2 half clamps for fixing under Ø 49 mm (1" 1/2) or Ø 42 mm (1" 1/4) tube	 0965 93	1
For fixing under Ø 60 mm (2") tube	0965 91	1
Set of 2 zinc-plated steel M8 ring bolts for suspending the unit	 0965 94	1
Set of 2 aluminium brackets for fixing unit to flat surface.	0965 97	1
316 stainless steel version	0965 90	1
Set of 2 aluminium hinged brackets for adjusting direction of luminaire when wall-mounted.	 0965 98	1
316 stainless steel version	0965 74	1
Set of 2 zinc-plated brackets for quick fixing with one hand	 0965 96	1
316 stainless steel version	0965 89	1
Fall prevention fixing kit (1.20 m stainless steel chain) for M20 cable entry	0964 06	1
Fall prevention fixing sling (1.20 m stainless steel chain) for M25 cable entry	0964 05	1

For special options, please consult us:

- Single tube
- Fa6 tube
- Pole mounting version
- Special protection of the diffuser against severe chemical attack
- Lens fall prevention fixing kit

Dimensions of fixing accessories (see page 36-37)

Installation and connection method (see page 38-39)

Spare parts (see page 290)

Cable glands for armoured cable (see pages 252-262)

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- According to CENELEC :
 - Conforming to ATEX - 94/9 EC Directive standards EN 50014-18-19
 - EC 0081 II 2 G : for gas EEx ed II C T4 or T5 to Ta max. + 40°C horizontal position, lighting facing downwards.
 - EC 0081 II 2 D T = + 85°C : for dust
- According to IEC :
 - Conforming to IEC standards 60079-0/1/7 Ex eds II C T4 or T5 to Ta max. + 40°C horizontal position, lighting facing downwards
 - DIP A21 TA = + 85°C

Approvals :

- Approved type FLe
- CENELEC LCIE 98 ATEX 6004
- IEC LCIE Ex 98.012
- declaration of conformity No. 50201
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaire
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”
- Conforming to electromagnetic compatibility (EMC) standards
 - EN 55015
 - EN 61547

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Impact resistance : IK10 according to EN 50102

Operating temperature :

- 20°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Positive safety :

- Safety switch for opening contact luminaire, see glossary
- Anti-wiring-error connector

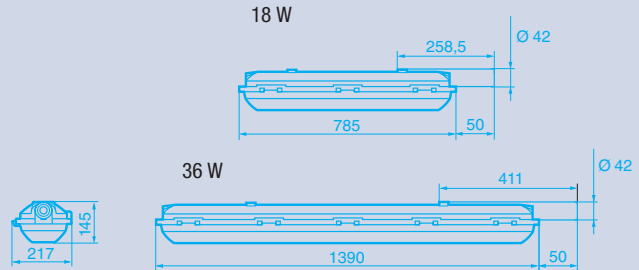
Product features/customer benefits

- Positive safety switch : **“Safety Plus”**
- Multi-parabolic reflector : **increased efficiency**
- Ballast with connectors : **rapid error-free maintenance**
- Opening mechanism can be disengaged : **protected system**

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II2 G/D
EEx ed IIC	T4 or T5	T = 85°C	IP 66/67	IK 10

Dimensions (mm) :

- Standard version

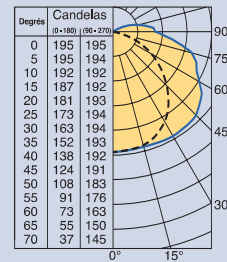


Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120:

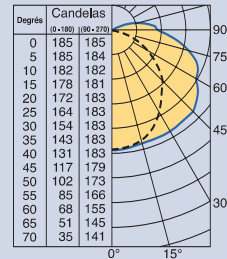
- Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

(2 x 18 W)
Efficiency 85,1 %
NF C 71-121 : 0,78 H + 0,08 T



(2 x 36 W)
Efficiency 80,5 %
NF C 71-121 : 0,73 H + 0,07 T



ATX emergency lighting : giving you the product, plus many special features

Choice of power supply

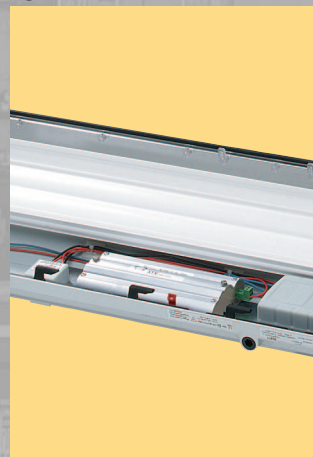
For emergency lighting in hazardous locations, ATX offers fluorescent luminaires with two types of power supply, one centralized with central battery, the other via self-contained units with an integrated battery.

Choice between three types of ATEX product

Depending on the emergency system and whether it is based on a centralized or self-contained battery, you can choose between three types of product with different functions. You also have the option of manual or automatic tests depending on the range.



Central battery (back up) a single electric installation for power supply 220/240 V~ and 110 V ~



Self-contained normal-emergency with integrated battery



Self-contained normal-emergency with auto-test

choice of power supply and type of benefits

The same benefits as the fluorescent range...

The normal-emergency bi-pin fluorescent luminaires incorporate all the technical benefits of the increased safety fluorescent range : safe closing, and easy maintenance. Work can also be performed with the mains power switched on.

Plus three special benefits

In addition, normal-emergency bi-pin fluorescent luminaires have features specially designed for their applications. See photos below.



LED indicates that batteries are charging, and that the unit is in good working order. It also confirms feedback of information for auto-test devices.



Two positive safety switches allow work to be carried out with the mains power switched on, by :

- Cutting the mains power
- Cutting the battery power



Plug-in battery pack which is easy to remove in situ with the mains power switched on, for units with integrated battery.

110/127 V - 220/240 V normal-emergency bi-pin fluorescent luminaires for non-armoured cable increased safety



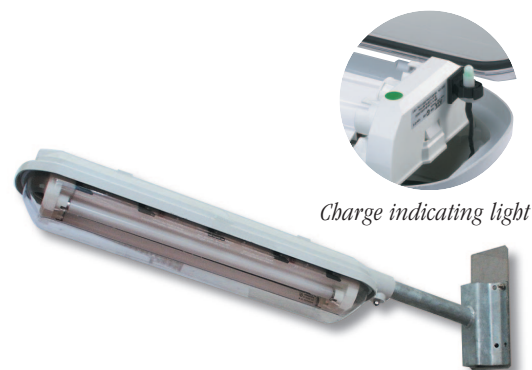
0963 54 Fluo 2 x 58 W



0963 71 Fluo 2 x 36 W



0963 70 Fluo 2 x 18 W



0963 92 Pole mounting fluo 2 x 18 W

18, 36 and 58 W fluorescent luminaires for normal and emergency lighting

- Ø 26 mm bi-pin tubes, standard G13 lampholders
- Frequency : 50/60 Hz
- Common power supply circuit to provide both normal lighting and emergency lighting
- Power supply via high frequency electronic ballast according to model: 110/127 V ± 10% AC/DC or 220/240 V ± 10%, 198 to 264 V
- Instant start - Power factor ≥ 0.95
- Battery voltage : 18 W : 6 V 4 A - 36 W/58W : 8.4 V 4 A
- Pre-impregnated fibre glass reinforced polyester body
- Polycarbonate multi-parabolic hinged reflector
- Polycarbonate diffuser hinged to body
- High temperature internal wiring
- Elastomer gasket
- Anti-vibration lampholders with spring system
- Operation : mains power switched on : 2 or 3 tubes lit
mains power switched off : 1 tube lit (battery backed)
- Power supply to the unit (mains supply and battery) cut off by two positive safety switches which operate when diffuser is opened, for replacing tubes with mains power switched on
- Green LED on when the installation is operating normally and off in the event of a mains power supply failure or battery fault
- Battery-backed tube identified with green mark
- Battery pack easily interchangeable on site, fixed by screws and equipped with a fast plug in connector
- Ballast and converter assembly fixed by screws, equipped with an anti-vibration fast connector
- Open and close using an Allen key or flat screwdriver (system automatically protects against over turning)

Standard twin, three-tube version

- Supplied with one M25 polyamide cable gland (sealed Ø : 8 to 18.5 mm) Two M25 blanking plugs
- Equipped with an IP 2 X terminal strip cover for maintenance of batteries, ballast and lampholders with mains power switched on
- 18 W version: one 4 x 4 mm² flexible or 4 x 6 mm² rigid connection terminal block max. including one earth terminal
- 36/58W version: one 2 x 4 x 4 mm² flexible or 2 x 4 x 6 mm² rigid connection terminal block max. including 2 earth terminals

Tube (W) (not supplied)	1 tube standby time	Light intensity	Weight (kg)	Volume (dm ³)	Cat. No. 110/127 V	Cat. No. 220/240 V	Pack
2 x 18	3 h	29 %	9.3	54.2	0913 70		1
2 x 18	3 h	29 %	7.3	32.3		0963 70	1
2 x 36	3 h	16 %	9.6	54.2	0913 71	0963 71	1
2 x 58	3 h	11%	10.7	65	0913 54	0963 54	1
3 x 36	3 h	16%	11.6	54.2	0913 84	0963 84	1
3 x 58	3 h	11%	12.7	65	0913 94	0963 94	1

Part number in bold : fast moving references

Twin tube through-wiring version

- Supplied with
 - Two M25 polyamide cable glands (sealed Ø: 8 to 18.5 mm)
 - One M25 blanking plug
 - Two 4 x 4 mm² flexible or 4 x 6 mm² rigid. connection terminal blocks max.
- 18W : Maintenance of tubes with mains power switched on, maintenance of batteries, ballast and lampholders on site with mains power switched off
- 36W : Equipped with IP 2 X terminal strip cover, enabling maintenance of the batteries, ballast and lampholders with the mains power switched on

Tube (W) (not supplied)	1 tube standby time	Light output	Weight (Kg)	Volume (dm ³)	Cat. No. 110/127 V	Cat. No. 220/240 V	Pack
2 x 18	3 h	29 %	7.3	32.3		0963 80	1
2 x 36	3 h	16 %	9.6	54.2	0913 81	0963 81	1

Twin tube pole mounting version

- For mounting on pole or tubular wall-mounting support Ø 42 mm with one integrated M25 polyamide cable gland (sealed Ø 8 to 18.5 mm)
- Supplied with one 3 x 4 mm² connection terminal block and internal bracket for anchoring the cable (positive safety)

Tube (W) (not supplied)	1 tube standby time	Light output	Weight (Kg)	Volume (dm ³)	Cat. No. 110/127 V	Cat. No. 220/240 V	Pack
2 x 18 W	3h	29 %	10	54.2	0913 92	0963 92	1
2 x 36 W	3 h	16 %	10.4	54.2	0913 93	0963 93	1

Fixing accessories

	Cat. No.	Pack
Set of 2 half clamps for fixing under Ø 49 mm (1" 1/2) or Ø 42 mm (1" 1/4) tube	0965 93	1
For fixing under Ø 60 mm (2") tube:		
Set of 2 zinc-plated steel M8 ring bolts for suspending the unit	0965 91	1
Ø 42 mm galvanized steel pole for wall mounting	0965 94	1
Set of 2 aluminium brackets for fixing unit to flat surface.	0965 95	1
316 stainless steel version	0965 97	1
Set of 2 aluminium hinged brackets for adjusting direction of luminaire when wall-mounted.	0965 90	1
316 stainless steel version	0965 98	1
Set of 2 zinc-plated steel brackets for quick fixing with one hand	0965 74	1
316 stainless steel version	0965 96	1
Fall prevention fixing kit (1.20 m stainless steel chain) for M25 cable entry	0965 89	1
	0964 05	1

For special options, please consult us :

- 1 hr 30 mins standby time, remote batteries, other voltages

Dimensions of fixing accessories (see page 36-37)

Installation and connection method (see page 38-39)

Spare parts (see page 290)

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- According to CENELEC:
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18-19-28
 - EC 0081 II 2 G: for gas EEx edm II C T4 or T5 to Ta max. + 40°C horizontal position, lighting facing downwards
 - EC 0081 II 2 D - T = + 85°C : for dust
 - According to IEC:
 - Conforming to IEC standards 60079-0/1/7/18 Ex edsm II C T4 or T5 to Ta max. +40°C, horizontal position, lighting facing downwards
- DIP A21 TA = + 85°C

Approvals :

- Approved type FLe
- CENELEC LCIE 98 ATEX 6004
- IEC LCIE Ex 98.012
- declaration of conformity No. 50201
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaire
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"
- Conforming to electromagnetic compatibility (EMC) standards
 - EN 55015
 - EN 61547

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Impact resistance : IK10 according to EN 50102

Operating temperature :

- 20°C to + 55°C (18/36W) ; - 20°C to + 40°C (58W)

Anticorrosion treatment and climate protection : see page G50

Positive safety :

- Safety switch for opening luminaire, see glossary
- Anti-wiring-error connector

"Dimmable" 3-tube operation :

- Alternate use possible (1, 2 or 3 tubes) controlled by a double switch, available on request

Central tube lit



2 tubes lit



3 tubes lit



Emergency function 2 tubes

	Mains power on	Mains power off
Fluorescent luminaire on		
Fluorescent luminaire off		

Emergency function 3 tubes

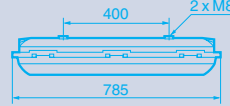
	Mains power on	Mains power off
Fluorescent luminaire on		
Fluorescent luminaire off		

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II2 G/D
EEx edm IIC	T4 or T5	T = 85°C	IP 66/67	IK 10

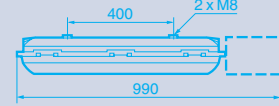
Dimensions (mm) :

Standard/through-wiring/pole mounting version :

18 W (220/230 V)



18 W (110/127 V)

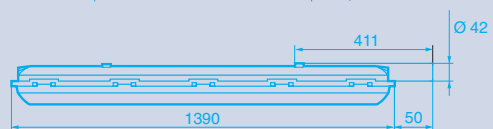
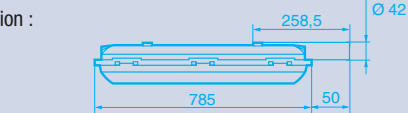
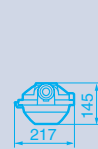


58 W



Pole mounting version :

(18/36W)



Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120:

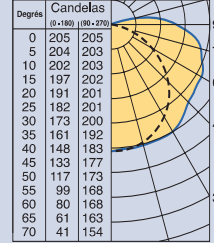
- Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

(1 x 36 W)

Efficiency 89,3 %

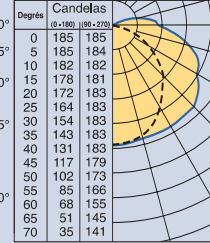
NF C 71-121 : 0,81 H + 0,08 T



(2 x 36 W)

Efficiency 80,5 %

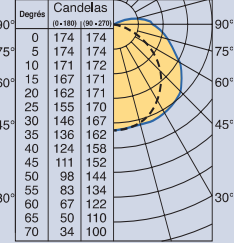
NF C 71-121 : 0,73 H + 0,07 T



(3 x 36 W)

Efficiency 68,1 %

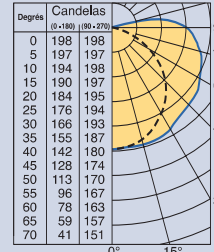
NF C 71-121 : 0,63 G + 0,05 T



(1 x 58 W)

Efficiency 87,5 %

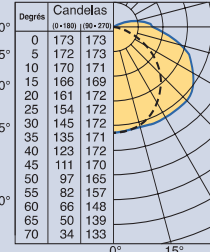
NF C 71-121 : 0,80 H + 0,07 T



(2 x 58 W)

Efficiency 76,9 %

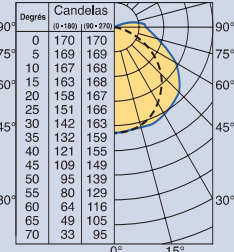
NF C 71-121 : 0,70 H + 0,07 T



(3 x 58 W)

Efficiency 65,6 %

NF C 71-121 : 0,61 G + 0,04 T



Product features/customer benefits

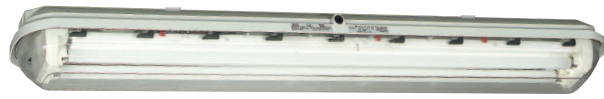
- Automatic switch-off function for mains supply and battery : **maintainability in hazardous locations**
- Positive safety switch : **"Safety Plus"**
- Multi-parabolic reflector : **increased efficiency**
- Ballast with plug in connectors : **rapid error-free maintenance**
- Battery with plug in connectors : **rapid error-free maintenance**
- Opening system automatically protected : **no over turning possible**
- Standard 3-tube : **increased intensity, fewer units required**
- 3-tube "dimnable" : **alternate use of the tubes with a double switch, flexibility of use**

Data sheet available on request

110/127 V and 220/240 V normal and emergency bi-pin fluorescent luminaires for armoured cable increased safety



0963 44 Fluo 2 x 58 W



0963 41 Fluo 2 x 36 W



0963 40 Fluo 2 x 18 W



Charge indicating light

18, 36 and 58 W fluorescent luminaires for normal and emergency lighting

- Ø 26 mm bi-pin tubes, standard G13 lampholders
- Frequency : 50/60 Hz
- Common power supply circuit to provide both normal lighting and emergency lighting
- Power supply via high frequency electronic ballast depending on version :
 - 110/127 V ± 10% AC/DC or 220/240 V ~ ± 10%, 198 to 264 V
- Instant start - Power factor ≥ 0.95
- Battery voltage : 18 W : 6 V 4 Ah - 36/58W : 8.4 V 4 Ah
- Pre-impregnated fibre glass reinforced polyester body
- Polycarbonate multi-parabolic hinged reflector
- Polycarbonate diffuser hinged to body
- High temperature internal wiring
- Elastomer gasket
- Anti-vibration lampholders with spring system
- Operation : mains power switched on : 2 or 3 tubes lit, mains power switched off : 1 tube lit (battery backup)
- Power supply to the unit (mains supply and battery) cut off by two positive safety switches which operate when diffuser is opened, for replacing tubes with mains power switched on
- Green LED on when the installation is operating normally and off in the event of a mains power supply failure or battery fault
- Battery-backed tube identified with green mark
- Battery pack easily interchangeable on site, fixed by screws and equipped with a fast plug in connector
- Ballast and converter fixed by screws, equipped with a fast connector
- Open and close using an Allen key or flat screwdriver (system automatically protects against over turning)

Standard version with earthing plate for armoured cable

- Two M 20 threaded cable entries with earth continuity plate at one end (cable gland not supplied)
- One clearance hole for M20 cable gland at the opposite end
- Supplied with :
 - Two M 20 blanking plugs and one M20 locknut
- Equipped with an IP 2 X terminal strip cover for maintenance of battery, ballast and lampholders with mains power switched on
- 18W version: one 4 x 4 mm² flexible or 4 x 6 mm² rigid connection terminal block max. including one earth terminal
- 36/58 W version: one 2 x 4 x 4 mm² flexible or 2 x 4 x 6mm² rigid connection terminal block max. including 2 earth terminals

Tube (W) (not supplied)	1 tube standby time	Light intensity	Weight (Kg)	Volume (dm ³)	Cat. No. 110/127 V	Cat. No. 220/240 V	Pack
2 x 18	3 h	29 %	7.6	32.3		0963 40	1
2 x 18	3 h	29 %	10	54.2	0913 40		1
2 x 36	3 h	16 %	9.9	54.2	0913 41	0963 41	1
2 x 58	3 h	11 %	10.7	65	0913 44	0963 44	1
3 x 36	3 h	16 %	11.6	54.2		0963 85	1
3 x 58	3 h	11 %	12.7	65	0913 95	0963 95	1

Fixing accessories

	Cat. No.	Pack
Set of 2 half clamps for fixing to Ø 49 mm (1" 1/2) or Ø 42 mm (1" 1/4) tube	0965 93	1
For fixing to Ø 60 mm (2") tube:		
Set of 2 zinc-plated steel M8 ring bolts	0965 91	1
for suspending the unit	0965 94	1
Set of 2 aluminium brackets for fixing unit to flat surface.	0965 97	1
316 stainless steel version	0965 90	1
Set of 2 aluminium hinged brackets for adjusting direction of luminaire when wall-mounted.	0965 98	1
316 stainless steel version	0965 74	1
Set of 2 zinc-plated steel brackets for quick fixing with one hand	0965 96	1
316 stainless steel version	0965 89	1
Fall prevention fixing kit (1.20 m stainless steel chain) for M20 cable entry	0964 06	1

For special options, please consult us:

- 1.5 hour emergency duration
- Remote batteries
- Other voltages
- Emergency unit only
- Special protection of the diffuser against severe chemical attack
- Lens fall prevention fixing kit

Dimensions of fixing accessories (see page 36-37)

Installation and connection method (see page 38-39)

Spare parts (see page 290)

Cable glands for armoured cable (see pages 252-262)

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- According to CENELEC :
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18-19
 - EC 0081 II 2 G: for gas EEx edm II C T4 or T5 to Ta max. + 40°C horizontal position, lighting facing downwards
 - EC 0081 II 2 D - T = + 85°C : for dust
 - According to IEC :
 - Conforming to IEC standards 60079-0/1/7 Ex edsm II C T4 or T5 to Ta max. + 40°C horizontal position, lighting facing downwards
- DIP A21 TA = + 85°C

Approvals :

- Approved type FLe
- CENELEC LCIE 98 ATEX 6004
- IEC LCIE Ex 98.012
- declaration of conformity No. 50201
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"
- Conforming to electromagnetic compatibility (EMC) standards
 - EN 55015 - EN 61547

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Impact resistance : IK10 according to EN 50102

Operating temperature :

- 20°C to + 55°C (18/36W) ; - 20°C to + 40°C (58W)

Anticorrosion treatment and climate protection :

- Page : G50

Positive "Safety Plus" :

- Safety switch for opening luminaire, see glossary
- Anti-wiring-error connector

"Dimmable" 3-tube operation :

- Alternate use possible (1, 2 or 3 tubes) controlled by a double switch, available on request

Central tube lit



2 tubes lit



3 tubes lit



Emergency function 2 tubes

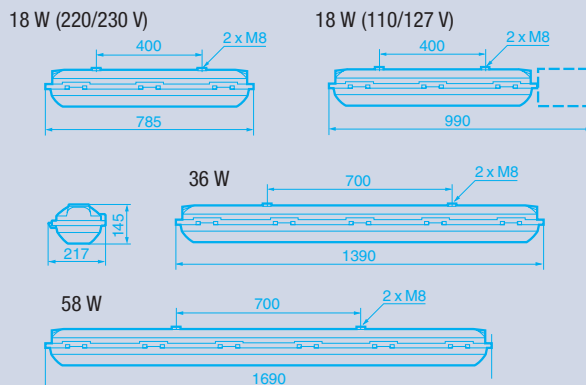
	Mains power on	Mains power off
Fluorescent luminaire on		
Fluorescent luminaire off		

Emergency function 3 tubes

	Mains power on	Mains power off
Fluorescent luminaire on		
Fluorescent luminaire off		

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II2 G/D
EEx edm IIC	T4 or T5	T = + 85°C	IP 66/67	IK 10

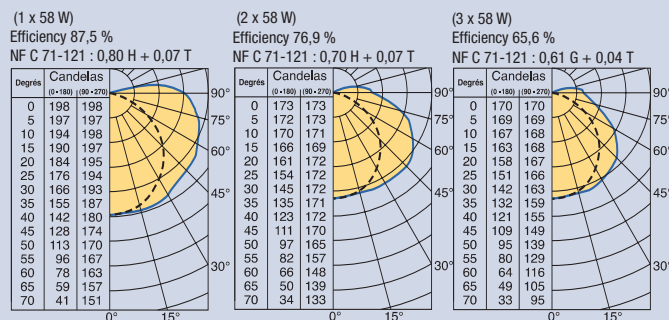
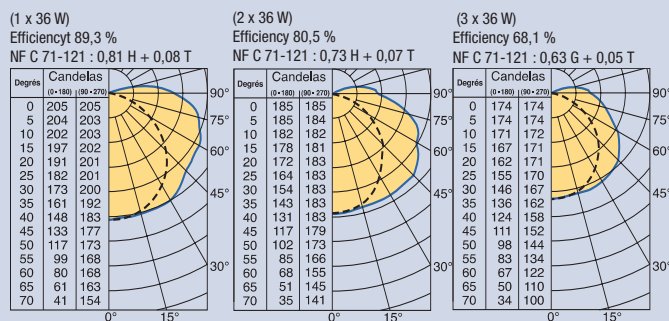
Dimensions (mm) : Standard version



Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120:

- Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

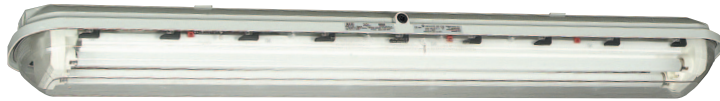


Product features/customer benefits

- Automatic switch-off function for mains supply and battery : **maintenance in hazardous areas**
- Positive safety switch : **"Safety Plus"**
- Multi-parabolic reflector : **increased efficiency**
- Ballast with plug in connectors : **rapid error-free maintenance**
- Battery with connectors : **rapid error-free maintenance**
- Opening system automatically protected : **no over turning possible**
- Standard 3-tube : **increased intensity, fewer units required**
- 3-tube "dimmable" : **alternate use of the tubes with a double switch, flexibility of use**

Data sheet available on request

110/127 V or 220/240 V single phase loop in loop out connection and through wiring normal-emergency for armoured cable **increased safety**



0963 22 Fluo 2 x 58 W



0963 31 Fluo 2 x 36 W



0963 30 Fluo 2 x 18 W



Charge indicating light

18, 36 and 58 W fluorescent luminaire for normal and emergency lighting

- Ø 26 mm bi-pin tubes, standard G13 lampholders
- Designed for single phase mains supplies with a choice of possible installation methods: terminal position, connection and through wiring
- Frequency : 50/60 Hz
- Common power supply circuit to provide both normal lighting and emergency lighting
- Power supply via high frequency electronic ballast depending on the version :
 - 110/127 V ± 10% AC/DC or 220/240 V ~ ± 10%, 198 to 264 V
- Instant start - Power factor ≥ 0.95
- Battery voltage : 18 W : 6 V 4 Ah - 36/58W : 8.4 V 4 Ah
- Pre-impregnated fibre glass reinforced polyester body
- Polycarbonate multi-parabolic hinged reflector
- Polycarbonate diffuser hinged to body
- High temperature internal wiring
- Elastomer gasket
- Anti-vibration lampholders with spring system
- Operation: mains power switched on : 2 tubes lit
mains power switched off : 1 tube lit (battery backup)
- Power supply to the unit (mains supply and battery) cut off by two positive safety switches, which operate when diffuser is opened, for replacing tubes with mains power switched on
- Green LED on when the installation is operating normally and off in the event of a mains power supply failure or a battery fault
- Battery-backed tube identified with green mark
- Open and close using an Allen key or flat screwdriver (system automatically protects against over turning)
- Battery pack easily interchangeable on site, fixed by screws and equipped with a fast plug in connector
- Ballast and converter fixed by screws, equipped with a fast connector
- 36/58 W equipped with an IP 2 X terminal strip cover for maintenance of battery, ballast and lampholders with mains power switched on
- 18W maintenance of the tubes with the mains power switched on, maintenance of the battery, ballast and lampholders with the mains power absent.
- Three threaded cable entries with earthing plates for M20 cable gland (not supplied) for armoured cable
- Supplied with:
 - Two M20 blanking plugs
 - 18 W : 4 X 4 mm² flexible or 8 x 6 mm² rigid connection terminal block max. including one earth terminal at one end
 - One 4 x 4 mm² flexible or 4 x 6 mm² rigid loop in loop out terminal block including one earth terminal at the other end







Catalogue numbers

Tube (W) (not supplied)	1 tube standby time	Light intensity	Weight (Kg)	Volume (dm ³)	Cat. No. 110/127 V	Cat. No. 220/240 V	Pack
2 x 18	3 h	29%	7.6	32.3		0963 30	1
2 x 18	3 h	29%	10	54.2	0913 40(*)		1
2 x 36	3 h	16 %	9.9	54.2	0913 31	0963 31	1
2 x 58	3 h	11 %	10.7	65	0913 32	0963 32	1

(*) reference 0913 40 possible installation methods :

- terminal position and connection : YES
- through wiring : NO

Fixing accessories

	Cat. No.	Pack
Set of 2 half clamps for fixing to Ø 49 mm (1" 1/2) or Ø 42 mm (1" 1/4) tube	 0965 93	1
For fixing to Ø 60 mm (2") tube:		
Set of 2 zinc-plated steel M8 ring bolts	 0965 94	1
for suspending the unit		
Set of 2 aluminium brackets for fixing unit to flat surface	 0965 97	1
316 stainless steel version	0965 90	1
Set of 2 aluminium hinged brackets for adjusting the direction of the luminaire when wall-mounted	 0965 98	1
316 stainless steel version	0965 74	1
Set of 2 zinc-plated steel brackets for quick fixing with one hand	 0965 96	1
316 stainless steel version	 0965 89	1
Fall prevention fixing kit (1.20 m stainless steel chain) for M20 cable entry	0964 06	1

For special options, please consult us :

- **1,5 hour emergency duration**
- **Remote battery**
- **Other voltages**
- **Lens fall prevention fixing kit**

Dimensions of fixing accessories (see page 36-37)

Installation and connection method (see page 38-39)

Spare parts (see page 290)

Cable glands for armoured cable (see pages 252-262)

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- According to CENELEC :
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18-19
 - EC 0081 II 2 G : for gas EEx edm II C T4 or T5 to Ta max. + 40°C horizontal position, lighting facing downwards
 - EC 0081 II 2 D - T = + 85°C : for dust
- According to IEC :
 - Conforming to IEC standards 60079-0/1/7 Ex edsm II C T4 or T5 to Ta max. + 40°C horizontal position, lighting facing downwards
 - DIP A21 TA = + 85°C

Approvals :

- Approved type FLe
- CENELEC LCIE 98 ATEX 6004
- IEC LCIE Ex 98.012
- declaration of conformity No. 50201
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"
- Conforming to electromagnetic compatibility (EMC) standards
 - EN 55015
 - EN 61547

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Impact resistance : IK10 according to EN 50102

Operating temperature :

- 20°C to + 55°C (18/36 W) ; - 20°C to + 40°C (58 W)

Anticorrosion treatment and climate protection : see page G50

Positive "Safety Plus" :

- Safety switch for opening luminaire, see glossary
- Anti-wiring-error connector

Emergency function 2 tubes

	Mains power switched on	Mains power switched on
Fluorescent luminaire on		
Fluorescent luminaire off		

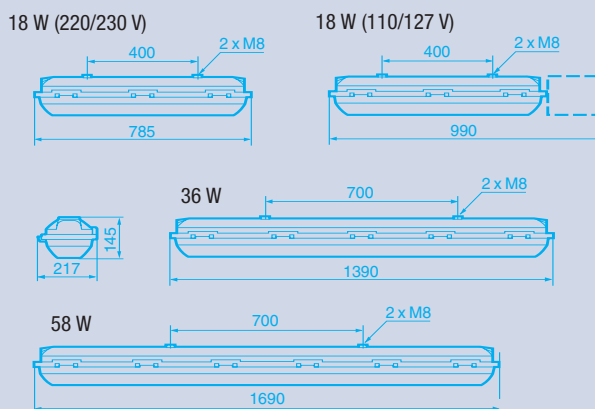
Product features/customer benefits

- Automatic switch-off function for mains supply and battery : **maintenance in hazardous areas**
- Positive safety switch : **"Safety Plus"**
- Multi-parabolic reflector : **increased efficiency**
- Ballast with plug in connectors : **rapid error-free maintenance**
- Battery with plug in connectors : **rapid error-free maintenance**
- Opening system automatically protected : **no over turning possible**

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II2 G/D
EEx edm IIC	T4 or T5	T = 85°C	IP 66/67	IK 10

Dimensions (mm) :

Single phase loop in loop out connection/through wiring version

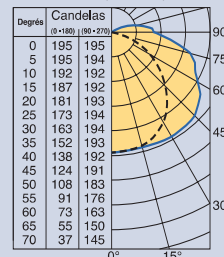


Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120:

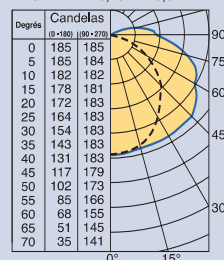
- Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

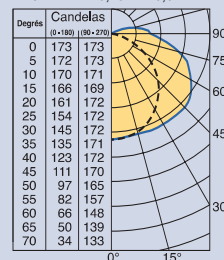
(2 x 18 W)
Efficiency 85,1 %
NF C 71-121 : 0,78 H + 0,08 T



(2 x 36 W)
Efficiency 80,5 %
NF C 71-121 : 0,73 H + 0,07 T



(2 x 58 W)
Efficiency 76,9 %
NF C 71-121 : 0,70 H + 0,07 T



220/240 V AC or 110 V DC normal and emergency bi-pin luminaires for central source for armoured and non-armoured cable **increased safety**



0963 12 Fluo 2 x 36W



0963 10 Fluo 2 x 18W

18 and 36 W fluorescent luminaires

- Ø 26 mm bi-pin tubes, standard G 13 lampholders
- Power supply via high frequency ballast for alternate use:
 - in normal mode: 220/240 V ~ ± 10%, 198 to 264 V 50/60 Hz
 - in battery back up mode 3 hours maximum: 110 V DC on remote battery powered by the mains supply
- Pre-impregnated fibre glass reinforced polyester body
- Polycarbonate diffuser hinged to body
- Polycarbonate multi-parabolic hinged reflector
- High temperature internal wiring
- Elastomer gasket
- Anti-vibration lampholders with spring system
- Power supply to the unit cut off by positive safety switch which operates when diffuser is opened, for replacing tubes with mains power switched on
- If one tube fails, the other tube remains lit.
- Open and close using an Allen key or flat screwdriver (system automatically protects against over turning)
- IP 2X terminal strip cover for maintaining the ballast and lampholders without cutting off the mains power supply
- Ballast fixed by screws, equipped with a fast connector

Standard twin version for non-armoured cable

- Three threaded cable entries, 2 at one end and the third at the opposite end for M25 cable gland.
- Supplied with:
 - One M25 polyamide cable gland (sealed Ø 8 to 18.5 mm)
 - Two M25 blanking plugs
 - One 5 x 4 mm² max. flexible or 5 x 6 mm² max. rigid connection terminal block

Tube (W) not supplied	Light output	Weight (Kg)	Volume (dm ³)	Cat. No. 220/240 V	Pack
2 x 18	100 %	5.5	32.3	0963 10	1
2 x 36	100 %	7.9	54.2	0963 12	1

Standard twin version for armoured cable

- Two M20 threaded cable entries with earth continuity plate for cable gland (not supplied) for armoured cable at one end
- One clearance hole for M20 cable gland at the opposite end
- Supplied with:
 - Two M20 blanking plugs and one M20 locknut
 - One 5 x 4 mm² max. flexible or 5 x 6 mm² max. rigid connection terminal block

Tube (W) not supplied	Light output	Weight (Kg)	Volume (dm ³)	Cat. No. 220/240V	Pack
2 x 18	100 %	5.5	32.3	0963 18	1
2 x 36	100 %	7.9	54.2	0963 20	1

Fixing accessories

	Cat. No.	Pack
Set of 2 half clamps for fixing to Ø 49 mm (1" 1/2) or Ø 42 mm (1" 1/4) tube	0965 93	1
For fixing to Ø 60 mm (2") tube	09665 91	1
Set of 2 zinc-plated steel M8 ring bolts for suspending the unit	0965 94	1
Set of 2 aluminium brackets for fixing unit to flat surface.	0965 97	1
316 stainless steel version	0965 90	1
Set of 2 aluminium hinged brackets for adjusting direction of luminaire when wall-mounted.	0965 98	1
316 stainless steel version	0965 74	1
Set of 2 zinc-plated steel brackets for quick fixing	0965 96	1
316 stainless steel version	0965 89	1
Fall prevention fixing kit (1.20 m chain) for M20 cable entry	0964 06	1
Fall prevention fixing sling (1.20 m stainless steel chain) for M25 cable entry	0964 05	1

For special options, please consult us :

- **Through wiring and pole mounting versions**
- **Single tube and Fa6 tube versions**
- **Ø 38 mm bi-pin tubes**
- **Ø 38 mm bi-pin tubes specially designed for low temperatures**
- **Special protection of the diffuser against severe chemical attack**
- **Lens fall prevention fixing kit**

Dimensions of fixing accessories (see page 36-37)

Installation and connection method (see page 38-39)

Spare parts (see page 290)

Cable glands for armoured cable (see pages 252-262)

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- According to CENELEC:
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18-19
 - EC 0081 II 2 G : for gas EEx ed II C T4 or T5 to Ta max. + 40°C horizontal position, lighting facing downwards.
 - EC 0081 II 2 D T = + 85°C : for dust
 - According to IEC :
 - Conforming to IEC standards 60079-0/1/7 Ex eds II C T4 or T5 to Ta max. + 40°C horizontal position, lighting facing downwards.
- DIP A21 TA = + 85°C

Approvals :

- Approved type File
- CENELEC LCIE 98 ATEX 6004
- IEC LCIE Ex 98.012
- declaration of conformity No. 50201
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to EN 50281-1-1 and IEC 61241-1-1 "combustible dust"
- Conforming to electromagnetic compatibility (EMC) standards
 - EN 55015
 - EN 61547

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Impact resistance : IK10 according to EN 50102

Operating temperature :

- 20°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Positive safety :

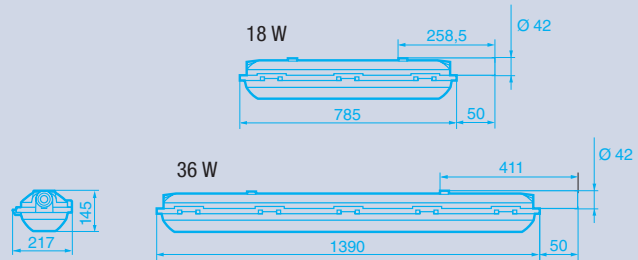
- Safety switch for opening luminaire, see glossary
- Anti-wiring-error connector

Product features/customer benefits

- Positive safety switch : **"Safety Plus"**
- Multi-parabolic reflector : **increased efficiency**
- Ballast with plug in connectors : **rapid error-free maintenance**
- Opening system automatically protected : **no over turning possible**

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II2 G/D
EEx ed IIC	T4 or T5	T = 85°C	IP 66/67	IK 10

Dimensions (mm) :

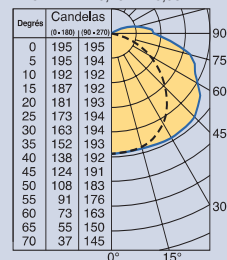


Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120:

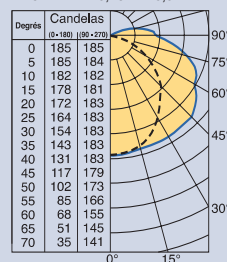
- Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

(2 x 18 W)
Efficiency 85,1 %
NF C 71-121 : 0,78 H + 0,08 T



(2 x 36 W)
Efficiency 80,5 %
NF C 71-121 : 0,73 H + 0,07 T



230/240 V "self-test" normal and emergency bi-pin fluorescent luminaires for non-armoured cable increased safety



0963 38 Fluo 2 x 58W



0963 19 Fluo 2 x 36W



0963 17 Fluo 2 x 18W



Visible and audible fault signal

18, 36 and 58 W auto-test fluorescent luminaires for normal and emergency lighting

- Ø 26 mm mono and bi-pin tubes, standard G13 lampholders
- Frequency: 50/60 Hz
- Common power supply circuit to provide both normal lighting and emergency lighting
- Power supply via high frequency ballast 230/240 V~ ± 6%; 216 to 256 V~
- Instant start - Power factor ≥ 0.96
- Battery voltage : 18W, 36W and 58W - 6V
- Pre-impregnated fibre glass reinforced polyester body
- Polycarbonate multi-parabolic hinged reflector
- Polycarbonate diffuser hinged to body
- High temperature internal wiring
- Elastomer gasket
- Anti-vibration lampholders with spring system
- Power supply to the unit (mains supply and battery) cut off by two positive safety switches which operate when diffuser is opened, for replacing tubes with mains power switched on
- Operation : mains power switched on : 2 tubes lit
mains power switched off : 1 tube lit (battery backed)
- Automatic tests controlled by microprocessor:
 - monthly : discharge for 5 minutes
 - 6-monthly : discharge for 1 hour
 - annual : discharge for 3 hours with indication (upon request) of the number of months remaining before the next test
- In the event of a fault:
 - LED flashes
 - Buzzer emits 3 long beeps every 35 minutes until the repair is carried out
- Battery-backed tube identified with green mark
- Open and close using an Allen key or flat screwdriver (system automatically protects against over turning)
- battery pack easily interchangeable on site, fixed by screws and equipped with a fast connector
- Ballast and converter fixed by screws, equipped with a fast connector

Standard twin version for non-armoured cable

- Supplied with :
 - One M25 polyamide cable gland (sealed Ø: 8 to 18.5mm)
 - Two M25 blanking plugs
- 18W version : one 4 x 4 mm² flexible or 4 x 6 mm² rigid connection terminal block max. including one earth terminal
- 36/58 W version: one 2 x 4 x 4 mm² flexible or 2 x 4 x 6mm² rigid connection terminal block max. including 2 earth terminals

Tube (W) not supplied	1 tube standby	Light intensity	Weight (kg)	Volume (dm ³)	Cat. No 230/240 V	Pack
2 x 18	3 h	24 %	7.6	32.3	0963 17	1
2 x 36	3 h	16 %	9.9	54.2	0963 19	1
2 x 58	3 h	15 %	11	65	0963 38	1

Fixing accessories

	Cat. No.	Pack
Set of 2 half clamps for fixing to Ø 49mm (1" 1/2) or Ø 42mm (1" 1/4) tube	0965 93	1
For fixing to Ø 60 mm (2") tube	0965 91	1
Set of 2 zinc-plated steel M8 ring bolts for suspending the unit	0965 94	1
Set of 2 aluminium brackets for fixing unit to flat surface.	0965 97	1
316 stainless steel version	0965 90	1
Set of 2 aluminium hinged brackets for adjusting direction of luminaire when wall-mounted..	0965 98	1
316 stainless steel version	0965 74	1
Set of 2 zinc-plated steel brackets for quick fixing with one hand	0965 96	1
316 stainless steel version	0965 89	1
Fall prevention fixing kit (1.20 m stainless steel chain) for M25 cable entry	0964 05	1

For special options, please consult us :

- Other voltages
- Ø 38 mm bi-pin tubes
- Ø 38 mm bi-pin tubes specially designed for low temperatures
- Special protection of the diffuser against severe chemical attack
- Lens fall prevention fixing kit

Dimensions of fixing accessories (see page 36-37)

Installation and connection method (see page 38-39)

Spare parts (see page 290)

NORMAL AND EMERGENCY BI-PIN FLUORESCENT LUMINAIRES

Self-test with integrated alarm and memory

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	I12 G/D
EEx ed IIC or IIB	T4 or T5	T = 85°C	IP 66/67	IK 10

TECHNICAL DATA

Zones : 1 and 2 and 21-22

Classification:

- According to CENELEC:
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18-19
 - EC 0081 Ex II 2 G : for gas EEx ed IIC* T4 or T5 to Ta max. + 40°C horizontal position, lighting facing downwards.
 - EC 0081 Ex II 2 D T = + 85°C : for dust
 - According to IEC:
 - Conforming to IEC standards 60079-0/1/7 Ex eds IIC* T4 or T5 to Ta max. + 40°C horizontal position, lighting facing downwards.
- DIP A21 TA = + 85°C
* IIB with external buzzer

Approvals :

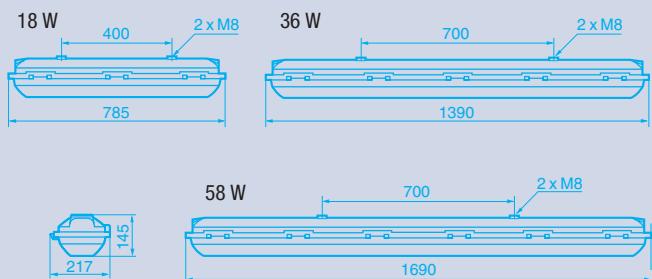
- Approved type File
- CENELEC LCIE 98 ATEX 6004
- IEC LCIE Ex 98.012
- CE declaration of conformity No. 50201
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to EN 50281-1-1 and IEC 61241-1-1 "combustible dust"
- Conforming to electromagnetic compatibility (EMC) standards - EN 55015 - EN 61547

Protection index :

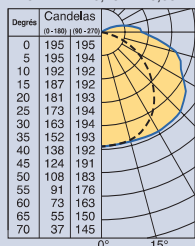
- IP 66/67 according to EN 60529 and IEC 60529
- Impact resistance : IK10 according to EN 50102

Operating temperature : - 20°C to + 55°C (18/36 W) ; -20°C to + 40°C (58 W)

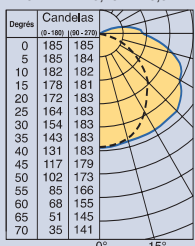
Dimensions (mm) :



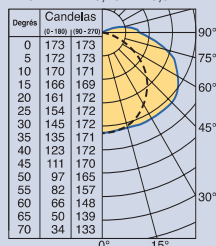
(2 x 18 W)
Efficiency 85,1 %
NF C 71-121 : 0,78 H + 0,08 T



(2 x 36 W)
Efficiency 80,5 %
NF C 71-121 : 0,73 H + 0,07 T



(2 x 58 W)
Efficiency 76,9 %
NF C 71-121 : 0,70 H + 0,07 T



Product features/customer benefits

- Positive safety switch : **"Safety Plus"**
- Multi-parabolic reflector : **increased efficiency**
- Ballast with plug in connectors : **rapid error-free maintenance**
- Battery with connectors : **rapid error-free maintenance**
- Opening system automatically protected : **no over turning possible**
- Automatic tests with alarm and memory : **easy maintenance**



visual indication

The LED indicates:

- Charging status of battery and charger
- Presence of mains power
- State of the lamps



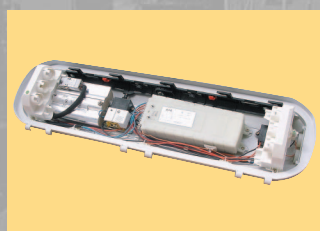
External audible indication

- 3 long beeps every 35 min until the fault is repaired
- 1 beep each time the unit is switched on confirms the unit is in good working order.



Mémorisation of tests

The microprocessor indicates the number of months remaining before the next annual 3-hour discharge test.



Easy maintenance

- On-site maintenance
- Plug-in with connector
- Quick fixing
- Integrated battery

ATX : "Safety Plus"

Battery discharge tests: 5-minute monthly test, 1-hour halfyear test, 3-hour yearly test.

Results of the tests :

- LED on with steady light > battery present, charged > satisfactory charging current > mains supply present and connected
- LED flashing > lamp fault
- LED off > battery fault > no mains supply



110/127 V - 220/240 V mono-pin fluorescent luminaires for armoured or non-armoured cable **increased safety**



0965 50 Fluo 2 x 58W



0965 88 Fluo 2 x 36W



0965 79 Fluo 2 x 18W



0969 05 Adaptor for Fa8 tube on Fa6 lampholder

18/20, 36/40 and 58/65W fluorescent luminaires

- Ø 38 mm (20, 40 and 65 W) and Ø 26 mm (20, 36 and 58 W) mono-pin tubes with Fa 6 lampholders according to IEC 60061-1
- Power supply via high frequency ballast depending on version : 99 to 140 V 110/127 V ± 10% AC/DC or 220/240 V ~ ± 10%, 198 to 264 V
- Frequency: 50/60 Hz
- Instant start. Power factor ≥ 0.95
- Pre-impregnated fibre glass reinforced polyester body
- Polycarbonate multi-parabolic hinged reflector
- Polycarbonate diffuser hinged to body
- Elastomer gasket
- High temperature internal wiring
- Anti-vibration lampholders with spring system
- Separate operation of the tubes: if one tube fails, the other tube remains lit
- Power supply to the unit cut off by positive safety switch which operates when diffuser is opened, for replacing tubes with mains power switched on
- Open and close using an Allen key or flat screwdriver (system automatically protects against over turning)
- IP 2X terminal strip cover for maintaining the ballast and lampholders without cutting off the main power supply
- Ballast fixed by screws, equipped with a fast connector

Standard version for non-armoured cable

- Three threaded cable entries, 2 at one end and the third at the opposite end for M25 cable gland.
- Supplied with:
 - One M25 polyamide cable gland (sealed Ø: 8 to 18.5 mm)
 - Two M25 blanking plugs
 - One 5 x 4 mm² flexible or 5 x 6mm² rigid connection terminal block maximum.

Tube (W) not supplied	Weight (Kg)	Volume (dm ³)	Cat. No. 110/127 V	Cat. No. 220/240 V	Pack
2 x 18/20	7.54	54.2	0915 79		1
2 x 18/20	5.54	32.3		0965 79	1
2 x 36/40	7.88	54.2	0915 88	0965 88	1
2 x 58/65	9.00	65	0915 50	0965 50	1

Standard version for armoured cable

- Two M20 threaded cable entries with earth continuity plate for armoured cables at one end (cable gland not supplied)
- One clearance hole for M20 cable gland at the opposite end.
- Supplied with :
 - Two blanking plugs and one M20 locknut
 - One 5 x 4 mm² max. flexible or 5 x 6 mm² max. rigid connection terminal block

Tube (W) not supplied	Weight (Kg)	Volume (dm ³)	Cat. No. 110/127 V	Cat. No. 220/240 V	Pack
2 x 18/20	7.54	54.2	0913 67		1
2 x 18/20	5.54	32.3		0963 67	1
2 x 36/40	7.88	54.2	0913 69	0963 69	1
2 x 58/65	9.00	65	0913 82	0963 82	1

Fixing accessories

	Cat. No.	Pack
Set of 2 half clamps for fixing to Ø 49 mm (1" 1/2) or Ø 42 mm (1" 1/4) tube	0965 93	1
For fixing to Ø 60 mm (2") tube :		
Set of 2 zinc-plated steel M8 ring bolts for suspending the unit	0965 94	1
Set of 2 aluminium brackets for fixing on flat surface.	0965 97	1
316 stainless steel version	0965 90	1
Set of 2 aluminium hinged brackets for adjusting direction of luminaire when wall-mounted.	0965 98	1
316 stainless steel version	0965 74	1
Set of 2 zinc-plated steel brackets quick fixing with one hand	0965 96	1
316 stainless steel version	0965 89	1
Fall prevention fixing kit (1.20 m stainless steel chain) for M20 cable entry	0964 06	1
Fall prevention fixing kit (1.20 m stainless steel chain) for M25 cable entry	0964 05	1
Adaptor for Fa8 tube on Fa 6 lampholders	0969 05	1

For special options, please consult us:

- Electronic ballast 254 V 50/60 Hz + 6% - 10%
- Pole mounting and through wiring versions
- Single version (1 x 18 W - 1 x 36 W - 1 x 58 W)
- Special protection of the diffuser against severe chemical attack
- Lens fall prevention fixing kit

Dimensions of fixing accessories (see page 36-37)

Installation and connection method (see page 38-39)

Spare parts (see page 290)

Cable glands for armoured cable (see pages 252-262)

TECHNICAL DATA

Zones :

- 1 and 2, and 21-22

Classification :

- **According to CENELEC :**
- Conforming to ATEX - 94/9 EC directive and standards NP EN 50014-18-19
- EC 0081 II 2 G: for gas EEx ed II C T4 or T5 to Ta max. + 40°C horizontal position, lighting facing downwards
- EC 0081 II 2 D - T = + 85°C : for dust
- **According to IEC :**
- Conforming to IEC standards 60079-0/1/7 Ex ed II C T4 or T5 to Ta max. + 40°C horizontal position, lighting facing downwards
DIP A21 TA = + 85°C

Approvals :

- Approved type File
- CENELEC LCIE 98 ATEX 6004
- IEC LCIE Ex 98.012
- declaration of conformity No. 50201
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to EN 50281-1-1 and IEC 61241-1-1 "combustible dust"
- Conforming to electromagnetic compatibility (EMC) standards
EN 55015 – EN 61547

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Impact resistance: IK10 according to EN 50102

Operating temperature :

- 20°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Positive safety :

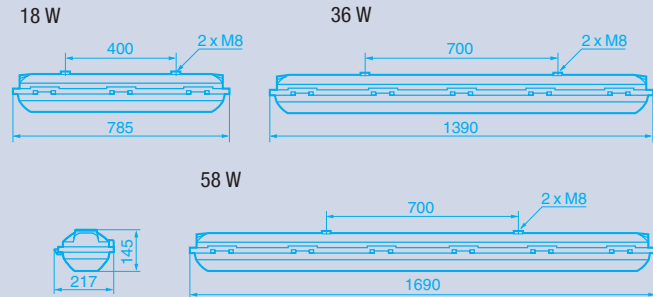
- Safety switch for opening luminaire, see glossary
- Anti-wiring-error connector

Product features/customer benefits

- Positive safety switch: **"Safety Plus"**
- Multi-parabolic reflector: **increased efficiency**
- Ballast with plug in connectors: **rapid error-free maintenance**
- Opening system automatically protected : **no over turning possible**

Zone 1 & 2 - 21 & 22		ATEX	IEC	EC	II2 G/D
EEx ed IIC	T4 or T5	T = 85°C	IP 66/67	IK 10	

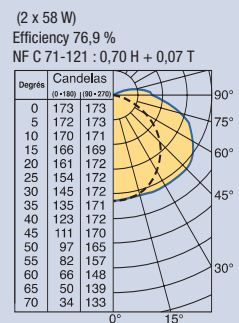
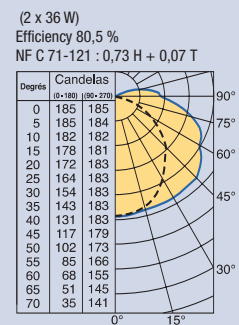
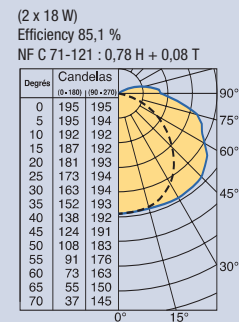
Dimensions (mm) :



Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120 :

- Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse



220/240 V normal and emergency mono-pin fluorescent luminaires for armoured or non-armoured cable **increased safety**



0969 12 Fluo 2 x 58W



0969 11 Fluo 2 x 36W



0969 10 Fluo 2 x 18W



Charge indicating light

18/20, 36/40 and 58/65W fluorescent luminaires

- Ø 38 mm (20, 40 and 65 W) and Ø 26 mm (18, 36 and 58 W) mono-pin tubes with Fa 6 lampholder according to IEC 60061-1
- Frequency : 50/60 Hz
- Power supply : high frequency ballast 220/240V~ (+ 6%, - 10%) 198 to 264 V
- Instant start. Power factor ≥ 0.95
- Battery voltage: 18W 6V 4A h - 36/58W 8.4V 4A h
- Pre-impregnated fibre glass reinforced polyester body
- Polycarbonate multi-parabolic hinged reflector
- Polycarbonate diffuser hinged to body
- High temperature internal wiring
- Elastomer gasket
- Anti-vibration lampholder with spring system
- Common power supply circuit to provide both normal lighting and emergency lighting
- Operation : mains power switched on, 2 tubes lit
mains power switched off, 1 tube lit (battery backed)
- Power supply to the unit (mains supply and battery) cut off by two positive safety switches which operate when diffuser is opened, for replacing tubes with mains power switched on
- Green LED on when the installation is operating normally and off if there is a mains power supply failure or a battery fault
- Battery-back up tube identified with green mark
- Battery pack easily interchangeable on site, fixed by screws and equipped with a fast connector
- Ballast and converter fixed by screws, equipped with a fast connector
- Open and close using an Allen key or flat screwdriver (system automatically protects against over turning)
- Equipped with an IP 2 X terminal strip cover for maintenance of battery, ballast and lampholders with mains power switched on
- 18W version: one 4 x 4 mm² flexible or 4 x 6 mm² rigid connection terminal block max. including one earth terminal
- 36/58 W version: one 2 x 4 x 4 mm² flexible or 2 x 4 x 6mm² rigid connection terminal block max. including 2 earth terminals

Standard version for non-armoured cable

- Three threaded cable entries for M25 cable glands. Supplied with:
 - One M25 polyamide cable gland (sealed Ø: 8 to 18.5mm)
 - Two M25 blanking plugs

Tube (W)	1 tube not supplied	Light standby time	Light output	Weight (Kg)	Volume (dm ³)	Cat. No. 220/240V	Pack
2 x 18/20	3 h	29 %	7.6	32.3	0969 10	1	
2 x 36/40	3 h	16 %	9.9	54.2	0969 11	1	
2 x 58/65	3 h	11 %	11	65	0969 12	1	

Standard version with earthing plate for armoured cable

- Two M20 threaded cable entries with earth continuity plate at one end (cable gland not supplied)
- One clearance hole for M20 cable gland at the opposite end
- Supplied with:
 - Two M20 blanking plugs and one M20 locknut

Tube (W)	1 tube not supplied	Light standby time	Light output	Weight (Kg)	Volume (dm ³)	Cat. No. 220/240 V	Pack
2 x 18/20	3 hrs	29%	7.6	32.3	0969 20	1	
2 x 36/40	3 hrs	16%	9.9	54.2	0969 21	1	
2 x 58/65	3 hrs	11%	9	65	0969 22	1	

Fixing accessories

	Cat. No.	Pack
Set of 2 half clamps for fixing to Ø 49 mm (1" 1/2) or Ø 42 mm (1" 1/4) tube	0965 93	1
For fixing to Ø 60 mm (2") tube	0965 91	1
Set of 2 zinc-plated steel M8 ring bolts for suspending the unit	0965 94	1
Set of 2 aluminium brackets for fixing unit on flat surface.	0965 97	1
316 stainless steel version	0965 90	1
Set of 2 aluminium hinged brackets for adjusting direction of luminaire when wall-mounted.	0965 98	1
316 stainless steel version	0965 74	1
Set of 2 zinc-plated steel brackets for quick fixing with one hand	0965 96	1
316 stainless steel version	0965 89	1
Fall prevention fixing kit (1.20 m stainless steel chain) for M20 cable entry	0964 06	1
Fall prevention fixing kit (1.20 m stainless steel chain) for M25 cable entry	0964 05	1
Adaptor for Fa8 tube	0969 05	1

For special options, please consult us:

- **1,5 hour emergency duration**
- **External battery**
- **Other voltages**
- **Special protection of the diffuser against severe chemical attack**
- **Lens fall prevention fixing kit**

Dimensions of fixing accessories (see page 36-37)

Installation and connection method (see page 38-39)

Spare parts (see page 290)

Cable glands for armoured cable (see pages 252-262)

TECHNICAL DATA

Zones :

- 1 and 2, and 21-22

Classification :

- **According to CENELEC :**
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18-19-28
 - EC 0081 II 2 G : for gas EEx edm II C T4 or T5 to Ta max. + 40°C horizontal position, lighting facing downwards.
 - EC 0081 II 2 D - T = + 85°C : for dust
 - **According to IEC :**
 - Conforming to IEC standards 60079-0/1/7/18 Ex edm II C T4 or T5 to Ta max. + 40°C horizontal position, lighting facing downwards.
- DIP A21 TA = + 85°C

Approvals :

- Approved type File
- CENELEC LCIE 98 ATEX 6004
- IEC LCIE Ex 98.012
- **CE** declaration of conformity No. 50201
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 612241-1-1 "combustible dust"
- Conforming to electromagnetic compatibility (EMC) standards EN 55015 and EN 61547

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Impact resistance : IK10 according to EN 50102

Operating temperature :

- 20°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Positive safety :

- Safety switch for opening contacts
- Anti-wiring-error connector

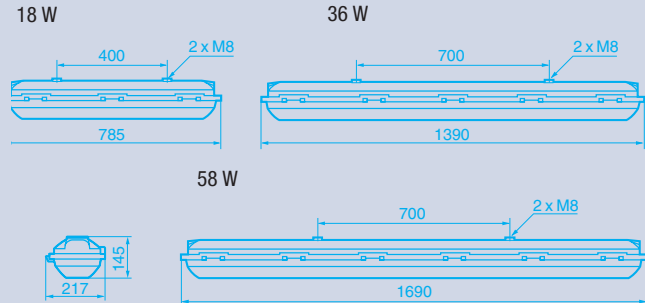
Product features/customer benefits

- Positive safety switch: **"Safety Plus"**
- Multi-parabolic reflector: **increased efficiency**
- Ballast with plug in connectors: **rapid error-free maintenance**
- Ballast with connectors: **rapid error-free maintenance**
- System automatically protected : **no over turning possible**

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II2 G/D
EEx edm IIC	T4 or T5	T = 85°C	IP 66/67	IK 10

Dimensions (mm) :

- Standard/through-wiring version



Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120:

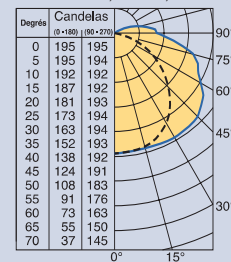
- Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

(2 x 18 W)

Efficiency 85,1 %

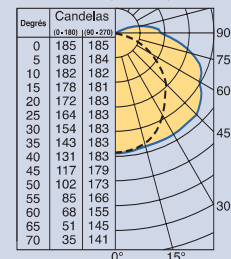
NF C 71-121 : 0,78 H + 0,08 T



(2 x 36 W)

Efficiency 80,5 %

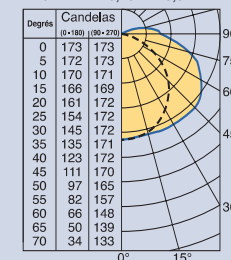
NF C 71-121 : 0,73 H + 0,07 T



(2 x 58 W)

Efficiency 76,9 %

NF C 71-121 : 0,70 H + 0,07 T



Data sheet available on request

110/127 V - 220/240 V level gauge light fitting for non-armoured cable increased safety



0965 32 level gauge light fitting 1 x 36W

Installation in
vertical position



18, 36 and 58 W level gauge light fitting

- Ø 26 mm tube, standard G13 caps
- Frequency : 50/60 Hz
- Power supply via high frequency ballast according to model:
110/127 V ± 10% AC/DC or 220/240 V~ ± 10%, 198 to 264 V
- Instant start. Power factor ≥ 0.95
- Pre-impregnated fibre glass reinforced polyester body
- Polycarbonate diffuser hinged to body
- Lighting concentrated on level indicator
- High temperature internal wiring
- Elastomer gasket
- Anti-vibration lampholders with spring system
- Power supply to the unit cut off by positive safety switch which operates when diffuser is opened, for replacing tube with mains power switched on
- Open and close using an Allen key or flat screwdriver (system automatically protects against over turning)
- IP 2X terminal strip cover for maintaining the ballast and lampholders without cutting off the main power supply
- Ballast fixed by screws, equipped with a fast connector

Level gauge light version

- Three threaded cable entries, 2 at one end and the third at the opposite end for M25 cable gland.
- Supplied with :
 - One M25 polyamide cable gland (sealed Ø 8 to 18.5 mm)
 - Two M25 blanking plugs
 - One 5 x 4 mm² max. flexible or 5 x 6 mm² max. rigid connection terminal block

Tube (W) not supplied	Weight (kg)	Volume (dm ³)	Cat. No. 110/127 V	Cat. No. 220/240 V	Pack
1 x 18	5.5	32.3	0915 31	0965 31	1
1 x 36	7.9	54.2	0915 32	0965 32	1
1 x 58	9	65	0915 33	0965 33	1

Fixing accessories

	Cat. No.	Pack
Set of 2 half clamps for fixing to Ø 49 mm (1" 1/2) or Ø 42 mm (1" 1/4) tube	0965 93	1
For fixing to Ø 60 mm (2") tube	0965 91	1
Set of 2 aluminium brackets for fixing unit to flat surface	0965 97	1
316 stainless steel version	0965 90	1
Set of 2 aluminium hinged brackets for adjusting direction of luminaire when wall-mounted.	0965 98	1
316 stainless steel version	0965 74	1
Set of 2 zinc-plated steel brackets for quick fixing with one hand	0965 96	1
316 stainless steel version	0965 89	1

For special options, please consult us:

- Ø 38 mm standard or bi-pin tubes specially designed for low temperatures
- Special protection of the diffuser against severe chemical attack

Dimensions of fixing accessories (see page 36-37)

Installation and connection method (see page 38-39)

Spare parts (see page 290)

Timer switch (see page 211)

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- According to CENELEC:
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18-19
 - EC 0081 II 2 G : for gas EEx ed II C T4
 - EC 0081 II 2 D - T = + 85°C: for dust
- According to IEC :
 - Conforming to IEC standards 60079-0/1/7 Ex ed II C T4
 - DIP A21 TA = + 85°C

Approvals :

- Approved type File
- CENELEC LCIE 98 ATEX 6004
- IEC LCIE Ex 98.012
- declaration of conformity No. 50201
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust "
- Conforming to electromagnetic compatibility (EMC) standards
 - EN 55015
 - EN 61547

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Impact resistance : IK10 according to EN 50102

Operating temperature :

- 20°C to + 55 °C

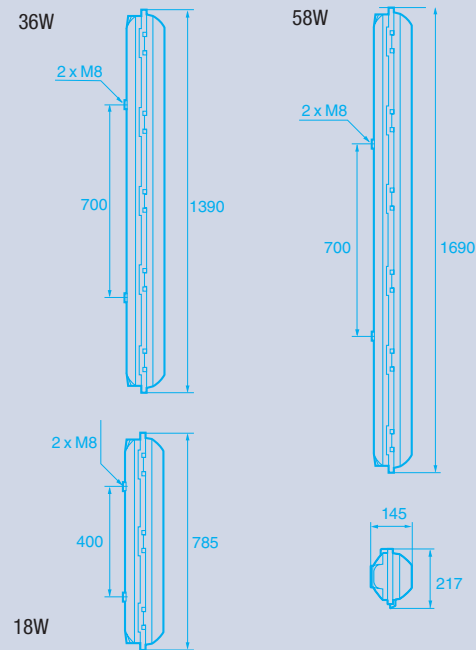
Anticorrosion treatment and climate protection : see page G50

Positive "safety plus" :

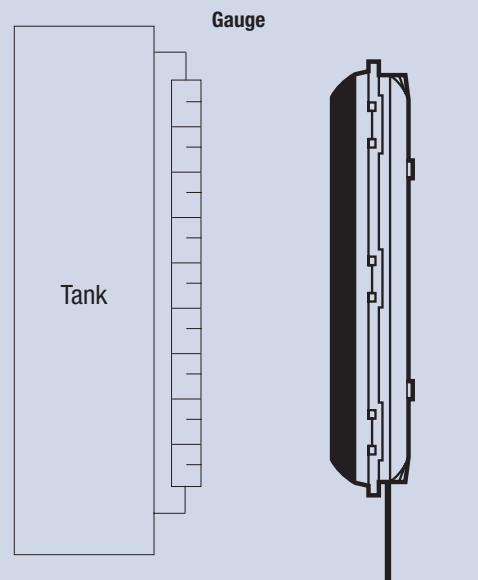
- Safety switch for opening luminaire, see glossary
- Anti-wiring-error connector

Zone 1 & 2 - 21 & 22		ATEX	IEC	EC	II2 G/D
EEx ed IIC	T4 or T5	T = 85°C	IP 66/67		IK 10

Dimensions (mm) :



Installation



Gauge lit on its full length in normal position of the luminaire

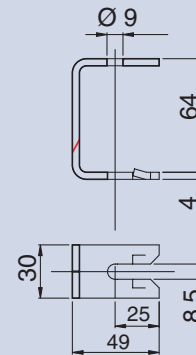
Product features/customer benefits

- Positive safety switch : **"Safety Plus"**
- Multi-parabolic reflector : **increased efficiency**
- Ballast with plug in connectors : **rapid error-free maintenance**
- Opening system automatically protected : **no over turning possible**
- Concentrated beam : **improved legibility**

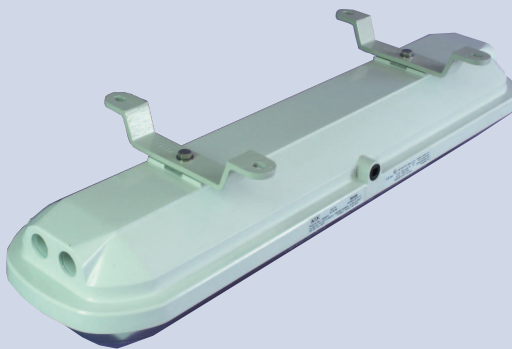
Quick fixing brackets
Zinc plated steel or stainless steel



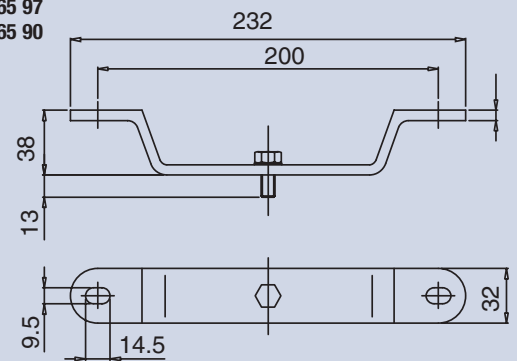
0965 96
0965 89



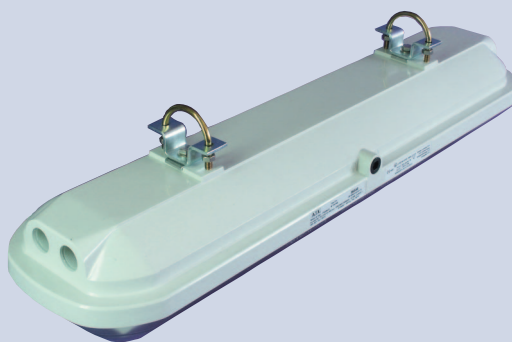
Fixing brackets for flat surface (painted aluminium alloy or stainless steel)



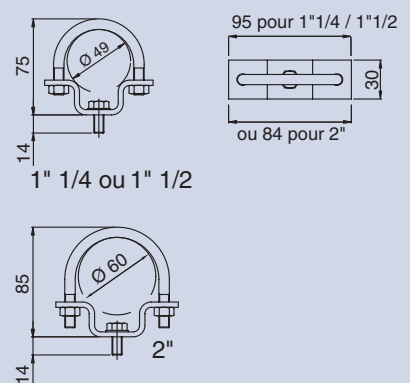
0965 97
0965 90



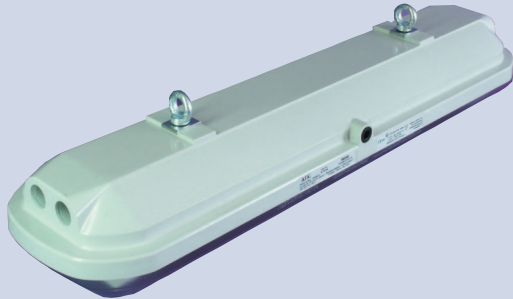
Set of pole claps (1" 1/4 to 2" tube) (zinc-plated steel)



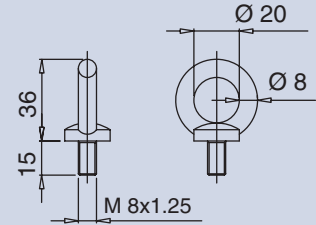
0965 93
0965 91



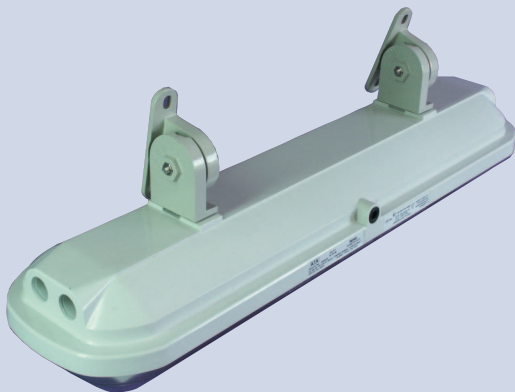
Set of 2 ring bolts (zinc-plated steel)



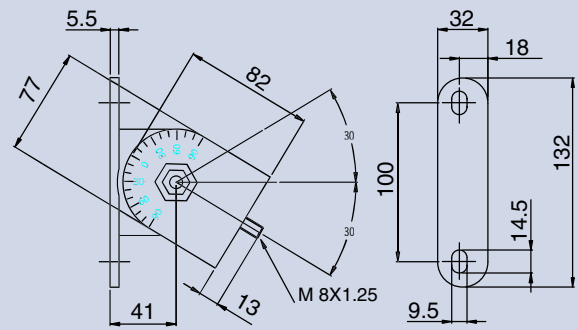
0965 94



Set of 2 hinged brackets (painted aluminium alloy or stainless steel)



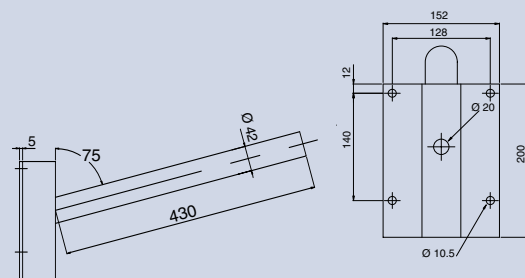
0965 98
0965 74



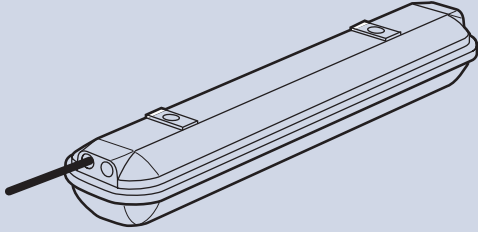
42 mm diam galvanized steel wall mounting pole



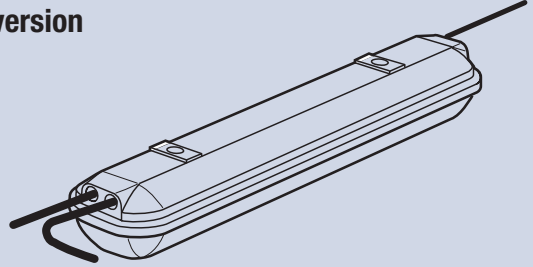
0965 95



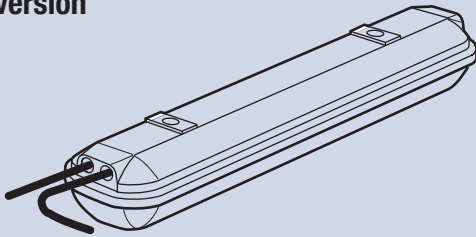
**Single entry
version**



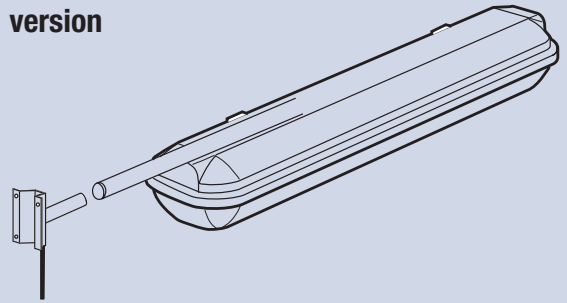
**Loopin loopout/through wired
version**



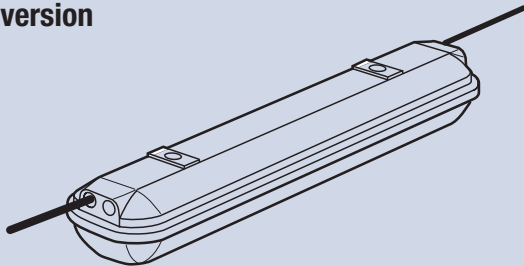
**Loopin loopout
version**



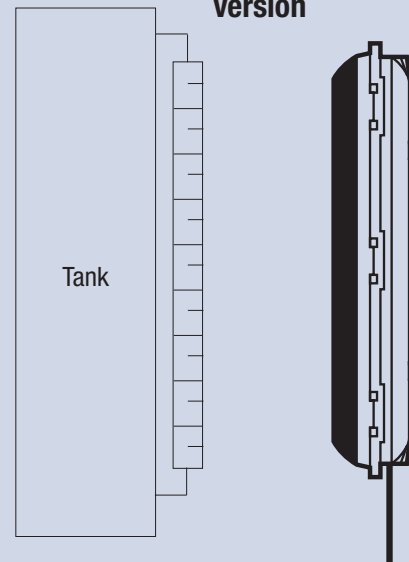
**Pole mounted
version**



**Through-wired
version**



**Level gauge light
version**



Type	Standard		3 phases	Single phase loop-in loop-out
	Single entry	Loop-in Loop-out	Through-wired	through-wired
Cable connections				
Standard and level gauge lighting (1)	(1)		(2) (2) 3 phases through-wired for balance load circuit	
Emergency				
Pole mounting version				
Emergency pole mounting version				

Data sheet available on request

220/240 V bi-pin metal-glass fluorescent luminaires for non-armoured cable increased safety



0965 60 2 x 36 W metal-glass luminaire

Fluorescent luminaires

- Ø 26 mm or 38 mm bi-pin tubes, standard G13 lampholders
- Can be flush-mounted or suspended
- Frequency: 50/60 Hz
- Power supply via high frequency ballast 220/240 V~ ± 10%, 198 to 264 V
- Instant start. Power factor ≥ 0.95
- Grey painted aluminium alloy body
- Toughened glass equipped with removable hinges for ease of maintenance
- Internal aluminium reflector
- External earth: M6 screw
- Internal components fixed on plate hinged to body for ease of maintenance
- Ballast fixed by screws, equipped with a fast connector
- Two clearance holes for M20 or PG13 cable gland
- Supplied with:
 - One M20 polyamide cable gland (sealed Ø: 6.5 to 14.5 mm)
 - One M20 blanking plug
 - Two M20 locknuts
 - One 5 x 4 mm² flexible or 4 x 6 mm² rigid maximum connection terminal block

For special options, please consult us:

- Other voltages: 110, 127 and 254 V - 10% + 6%
- Ø 38 or Ø 26 mm, 20/40 and 65 W mono-pin tube, Fa6 cap
- Tubes specially designed for low temperatures
- Flush-mounting frame

Spare parts (see page 290)

- Toughened glass with hinges





Increased safety cable gland

- Polyamide (see page 259)
- Metal (see page 258)
- For armoured cable (see page 252-262)

Catalogue numbers

Tube (W) (not supplied)	Weight (Kg)	Volume (dm ³)	Cat. No. 220/240 V	Pack
2 x 18	13,5	82,2	0965 59	1
2 x 36	23	109	0965 60	1
2 x 58	25	118	0965 61	1

Accessories

		Cat. No.	Pack
Set of 2 brackets for suspending the unit		0948 98	1
316 stainless steel version		0948 90	1
Set of 2 brackets for flush-mounting the unit		0965 92	1
Set of 2 half clamps : fixing to		0965 93	1
Ø 49 mm (1" 1/2) or Ø 42 mm (1" 1/4) tube			
Fixing to Ø 60 mm (2") tube		0965 91	1
Set of 2 aluminium hinged brackets		0965 98	1
Set of 2 316 stainless steel hinged brackets			
for adjusting direction of luminaire		0965 74	1
when wall-mounted.			



Part number in bold : fast moving references

TECHNICAL DATA

Zones :

- 1 - 2 and 21- 22

Classification :

• According to CENELEC :

- Conforming to - ATEX - 94/9 EC Directive and standards EN 50014-18-19
- EC 0081 II 2 G : for gas EEx ed II C T4
- EC 0081 II 2 D - T = + 85°C : for dust

• According to IEC :

- Conforming to IEC standards 60079-0/1/7
Ex eds II C T4 DIP A21 TA = + 85°C

Approvals :

- Approved type : EFMV3
- CENELEC LCIE 02 ATEX 6233
- IEC LCIE Ex 02.029
- declaration of conformity No. 50237
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1
"combustible dust"
- Conforming to electromagnetic compatibility (EMC) standards
EN 61547 and EN 55015

Protection index :

- IP 65 according to EN 60529 and IEC 60529
- Impact resistance: IK10 according to EN 50102

Operating temperature :

- 20°C to + 55°C
- 40°C to + 55°C (to be equipped with tube for very cold applications)

Anticorrosion treatment and climate protection : see page G50

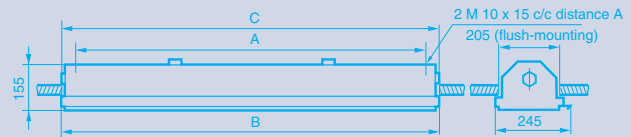
Product features/customer benefits

- Cast aluminium body : **very good resistance outdoors**
- Removable toughened glass : **rapid maintenance**
- Bright aluminium reflector : **increased efficiency**
- Ballast with plug in connectors : **rapid error-free maintenance**

Zone 1 & 2 - 21 & 22		ATEX	IEC	EC	II2 G/D
EEx ed IIC	T4	T = 85°C	IP 65	IK 10	

Dimensions/suspended or flush mounted

Cat. No.	A	B	C flush-mounting
0965 59	750	815	798
0965 60	1350	1415	1398
0965 61	1650	1715	1698

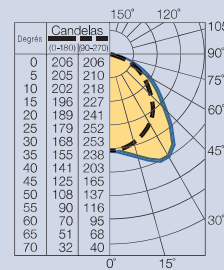


Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NFC 71-120:

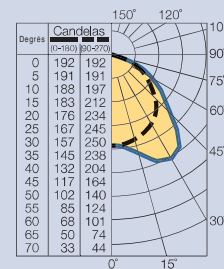
- Luminaire symbol according to NFC 71-121

--- longitudinal
— transverse

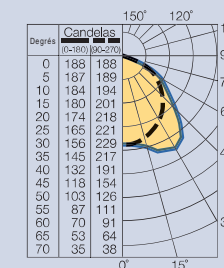
2 x 18 W
Efficiency 66,6 %
NFC 71-121 : 0,66 D



2 x 36 W
Efficiency 64,3 %
NFC 71-121 : 0,64 E



2 x 58 W
Efficiency 59,9 %
NFC 71-121 : 0,60 D



220/240 V bi-pin normal and emergency bi-pin metal-glass fluorescent luminaires for non-armoured cable increased safety



2 x 36 W metal-glass luminaires



Plug in battery pack interchangeable on site

Fluorescent luminaires

- Ø 26 mm or 38 mm bi-pin tubes, standard G 13 lampholders
- Frequency : 50/60 Hz
- Power supply via high frequency ballast 220/240 V~ ± 10%, 198 to 264V
- Battery circuit cut by 1 switch which operates when the glass is opened to change the battery with mains power switched on
- Instant start. Power factor ≥ 0.95
- Battery voltage : - 36/58 W 8.4V 4A h
- Grey painted aluminium alloy body
- Toughened glass with removable hinges for ease of maintenance
- Internal aluminium reflector
- Operation: mains power switched on, 2 tubes lit
mains power switched off, 1 tube lit (battery backed)
- Green LED on when the installation is operating normally and off if there is a mains power failure or a battery fault
- Battery-backed tube identified with green mark
- Battery pack easily interchangeable on site, fixed by screws and equipped with a fast connector
- Ballast and converter assembly fixed by screws, equipped with an anti-vibration fast connector
- Internal components fixed on plate hinged to body for ease of maintenance
- Two clearance holes for M20 or PG13 cable gland
- Supplied with:
 - One M20 polyamide cable gland (sealed Ø: 6.5 to 14.5 mm)
 - One M20 blanking plug
 - One 2 x 4 x 4 mm² max. flexible or 2 x 4 x 6 mm² maximum rigid connection terminal block
 - Two M20 locknuts

Catalogue numbers

Tube (W) not supplied	1 tube standby time	Light output	Weight (Kg)	Volume (dm ³)	Cat. No. 220/240 V	Pack
2 x 36	3 hrs	29%	25	109	0969 36	1
2 x 58	3 hrs	16%	27	118	0969 58	1

Accessories

	Cat. No.	Pack
Set of 2 brackets for suspending the unit	0948 98	1
Set of 2 brackets for flush-mounting the unit	0965 92	1
Set of 2 half clamps for fixing to Ø 49 mm (1" 1/2) or Ø 42 mm (1" 1/4) tube	0965 93	1
Fixing to Ø 60 mm (2") tube:	0965 91	1
Set of 2 aluminium hinged brackets	0965 98	1
Set of 2 316 stainless steel hinged brackets for adjusting the direction of the luminaire when wall-mounted.	0965 74	1

For special options, please consult us :

- Other voltages 110/127V
 - 40 and 65W mono-pin tube, Fa6 cap
 - 1,5 hour duration version
 - Tube specially designed for low temperatures
 - Flush-mounting frame
- Spare parts (see page 290)
- Toughened glass with hinges

Increased safety cable gland

Reducers and adaptors (see page 260)

- Polyamid (see page 288)
- Metal (see page 258)
- For armoured cable (see page 252-262)



TECHNICAL DATA

Zones :

- 1 - 2 and 21- 22

Classification :

• According to CENELEC :

- Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18-19-28
- EC 0081 II 2 G: for gas EEx edm II C T4
- EC 0081 II 2 D - T = + 85°C : for dust

• According to IEC :

- Conforming to IEC standards 60079-0/1/7/18
- Ex edsm II C T4 DIPA 21 TA = + 85°C

Approvals :

- Approved type : EFMV3
- CENELEC LCIE 02 ATEX 6233
- IEC LCIE Ex 02.029
- **CE** declaration of conformity No. 50237
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"
- Conforming to electromagnetic compatibility (EMC) standards EN 55015 and EN 61547

Protection index :

- IP 65 according to EN 60529 and IEC 60529
- Impact resistance: IK10 according to EN 50102

Operating temperature :

- 20°C to + 55°C
- 40°C to + 55°C (to be equipped with tube specially designed for cold applications)

Anticorrosion treatment and climate protection : see page G50

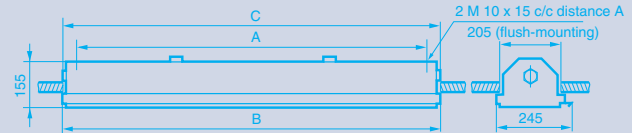
Product features/customer benefits

- Cast aluminium body : **very good resistance outdoors**
- Removable toughened glass : **rapid maintenance**
- Bright aluminium reflector : **increased efficiency**
- Ballast with plug in connectors : **rapid error-free maintenance**

Zone 1 & 2 - 21 & 22		ATEX	IEC	EC	II2 G/D
EEx edm IIC	T4	T = 85°C	IP 65	IK 10	

Dimensions/suspended or flush mounted

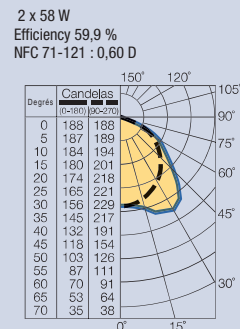
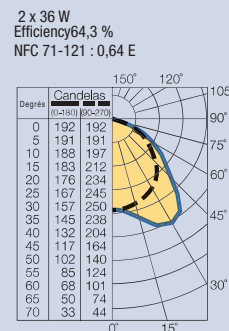
Cat. No.	A	B	C flush-mounting
0969 36	1350	1415	1398
0969 58	1650	1715	1698



Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120:

- Luminaire symbol according to NF C 71-121

— longitudinal
— transverse



Multi-function torch

Its ergonomic design makes it easy to handle : the user can select one of the two beams with one hand.

Two lenses can be switched on separately and not simultaneously.

Intensive beam for moving around in total safety.

Luminescent ring for locating the torch in the dark.



Wide angle beam for precise operations.



Pocket clip frees both hands for working.



The wide angle beam enables efficient hands-free work.



Good stability on a horizontal plane.



Suspension hook.



Light from below: ideal for pipework, cable ducting, etc.

EEx ibe IIC dual lens safety torches intrinsic safety and increased safety



0951 00

Dual lens safety torch

- Black polycarbonate body
- Polished internal reflectors
- Polycarbonate lenses
- Stainless steel suspension hook
- Pocket clip
- Luminescent ring
- One lens at the end for intensive beam
- One lens at the side for wide angle beam
- 3-position red selector switch:
 - Lens at end (intensive)
 - Stop
 - Side lens (wide angle)
- Takes two R 20 or LR 20 batteries (not supplied)
- Supplied with 1 halogen bulb at the end and one incandescent bulb at the side.
- Opening tool (conforming to CENELEC standards)

Catalogue numbers

Permissible lamps	R 20 or LR 20 battery (not supplied)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
2,8 V - 0,5 A (Halogen)	2	0.4	1.9	0951 00	1
2,5 V - 0,3 A (Incandescent)					

Accessories

Lamps, P13 cap, 55 S

	Cat. No.	Pack
2.8 V - 0.5 A halogen for Cat. No. 0951 00/02	0952 39	10
2.5 V - 0.3 A incandescent for Cat. No. 0951 00/02	0952 36	10
2.4 v - 0.7 A Krypton for old 2-lens model 0951 01	0952 38	10

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx ibe IIC	T6 or T4 or T3	T = 58 to 97°C	IP66/68	

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification:

- According to CENELEC:
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-19-20
 - EC 0081 II 2 G: for gas EEx ibe II C T(*)
 - EC 0081 II 2 D T = (**) for dust
- According to IEC:
 - Conforming to standards IEC 60079-0/7/11 Ex ibe II C T(*)
 - DIPA 21 TA = (**)

	Dust	Gas	
		for Ta = 40°C	for Ta > +55°C
Type of lamp	for Ta = 40°C	- 20°C ≤ Ta ≤ + 40°C	+ 40°C ≤ Ta > +55°C
Incandescent PR6	58°C (**)	T6/T4 (*)	T6/T4 (*)
Krypton PR102	97°C (**)	T4	T4
Halogen HPR52	68°C (**)	T4	T3
Halogen HPR01	68°C (**)	T4	T4

(*) T4 Taking in account wrong batteries installation (batteries short circuited)

(**) Température for dust applications = 115°C when batteries are circuited

WARNING : The use of Krypton lamps is exclusively reserved for the old torches Cat. Nos. 0951 01. Their use on 0951 00 torches is strictly prohibited

Approvals :

- Approved type TCH2
- CENELEC LCIE 02 ATEX 6229
- IEC LCIE Ex 02.024
- declaration of conformity No. 50238
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

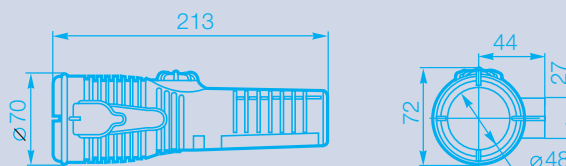
- IP 66/68 (25m) according to EN 60529 and IEC 60529

Operating temperature :

- 20°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :



Réf. 0951 00

Product features/customer benefits

- Photoluminescent ring : torch can be located in the dark
- 2 separate lamps : if one lamp fails, the second can be used to evacuate the area : "Safety Plus"
- Pocket clip : both hands available to work

Data sheet available on request



**NEW
HALOGEN**

0951 05

Single lens safety torch

- Shockproof and antistatic treated polyamide body
- Polished internal reflector
- Polycarbonate lens
- Stainless steel hook
- Luminescent switch on side
- Takes LR 20 or R 20 battery (not supplied)
- Can be used for Morse code

Catalogue numbers

Permissible lamps Halogen (supplied)	R20 / LR20 battery (not supplied)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
2.8 V - 0.5 A	2	0.4	3.4	0951 05	2
Incandescent (supplied)					
2.5 V - 0.3 A	2	0.4	3.4	0951 02	2
Incandescent (supplied)					
3.7 V - 0.3 A	3	0.4	3.4	0951 03	2

Accessories

Lamps, P13 cap, 55 S

	Cat. No.	Pack
2.8 V - 0.5 A halogen for Cat. No. 0951 00/02/05	0952 39	10
2.5 V - 0.3 A incandescent for Cat. No. 0951 00/02	0952 36	10
3.7 V - 0.3 A incandescent for Cat. No. 0951 03	0952 35	10

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEX ibe IIC	T4 or T6	T = 70°C	IP66	

TECHNICAL DATA

Zones : • 1 and 2 and 21-22

Classification :

- According to CENELEC :
 - Conforming to ATEX - 94/9 EC directive and standards EN 50014-19-20
 - EC 0081 II 2 G : for gas EEx ibe II C T6/T4 (*) for incandescent lamp
EEx ibe II C T4 for halogen lamp

(*) T4 Taking in account wrong batteries installation (batteries short circuited)

- EC 0081 II 2 D T = 70°C for dust (for incandescent and halogen lamp)

- According to IEC :

- Conforming to standards IEC 60079-0/1/7/11

EEx ibe II C T6 for incandescent lamp

EEx ibe II C T4 for halogen lamp

DIPA 21 TA = + 70°C (for incandescent and halogen lamp)

(**) Température for dust applications = 95°C when batteries are circuited

Approvals

- Approved type TCH1
- CENELEC LCIE 03 ATEX 6064
- IEC LCIE Ex 03.010
- declaration of conformity No. 50259
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1
“combustible dust”

Protection index :

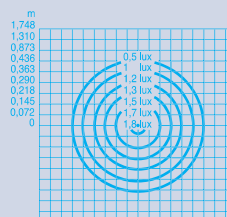
- IP 66 according to EN 60529 and IEC 60529

Operating temperature :

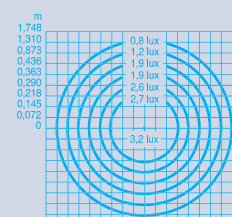
- 20°C to + 40°C

Anticorrosion treatment and climate protection : See page G50

Dimensions (mm) :



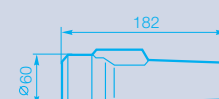
Cat. No. 0951 02 (from 25 metres)
Incandescent



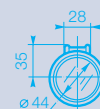
Cat. No. 0951 03 (from 25 metres)



Cat. No. 0951 03



Cat. No. 0951 02/05



Product features/customer benefits

- Photoluminescent switch : torch can be located in the dark
- Halogen lamp : increased light intensity (double light intensity)



0958 50 + 0958 55

For 60 to 150 W incandescent lamps

- Incandescent 60 to 150 W max., mixed 100 W max.
- E27 flameproof lampholder
- Grey painted aluminium alloy base
- Glass diffuser
- Silicone gasket
- Screw locking mechanism
- Operates in any position
- Connection to lampholder via 2 x 2.5 mm² terminals
- Internal earth : two 2 x 2.5 mm² terminals
- External earth : 1 x 4 mm² bracket

Three M20 threaded cable entries in “ T ” formation

Supplied with : - One M20 cable gland (sealed Ø : 6.5 to 14.5 mm)
- Two M20 blanking plugs

Permissible lamp (not supplied)	Weight (kg)	Volume (dm ³)	Cat. No.	Pack
60 to 150 W incandescent 100 W mixed	3	15	0958 50	1

Accessories

Spare parts

	Cat. No.	Pack
Zinc-plated steel protective guard	0958 55	1
Lamp glass	0958 56	1

Increased safety cable gland :

- Polyamid (see page 288)
- Métal (see page 258)
- For armoured cable (see page 252-262)

Reducing fittings and adaptors (see page 260)

Zone 1 & 2 - 21 & 22		ATEX	IEC	EC	II 2 G/D
EEx eII	T1 to T4	T : 120 to 305°C		IP 65	

TECHNICAL DATA

Zones : 1 and 2 and 21-22

Classification:

- According to CENELEC :
 - Conforming to ATEX - 94/9 EC directive and standards EN 50014-18-19
 - EC 0081 II 2 G: for gas EEx e II T(*)
 - EC 0081 II 2 D T = (**) for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/7/11 Ex e II T(*)
 - DIPA 21 TA = (**)

(*)	CENELEC		NB : T4 for Ta + 50°C position wall lampholder downwards
	+ 40°	+ 50°	
60 W - 75 W ceiling-mounted wall	T2 T3	T2 T3	
100 & 150 W incandescent Ceiling-mounted Wall-mounted	T2 T3	T2 T3	
100 W mixed Ceiling-mounted Wall-mounted	T1 T3	T1 T2	T3 for Ta + 50°C wall position lampholder downwards
(**) T° dust	60 W +92°C	75 W +97°C	100 W inc. +107°C
			100 W mixed +127°C
			150 W +120°C

Approvals :

- Approved type HBe 150
- CENELEC LCIE 02 ATEX 6228X
- IEC LCIE Ex 02.023X
- declaration of conformity No. 50244
- Conforming to standards for luminaires EN 60598-1 and IEC 60598-1
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1
“combustible dust”

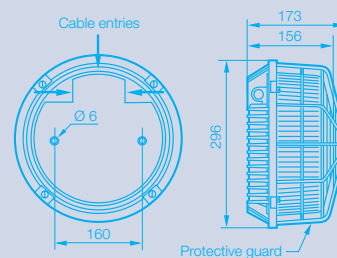
Protection index :

- IP 65 according to EN 60529 and IEC 600529

Operating temperature : - 40°C to + 50°C

Anticorrosion treatment and climate protection : See page G50

Dimensions (mm) :

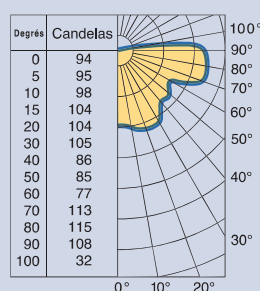


Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120 :

- Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

150 W incandescent : 0,62 J + 0,10 T



Data sheet available on request

European ATEX Directive 94/9 EC or 100A

1- Standards

Zones	0	20	1	21	2	22
Type of atmosphere	G D		G D		G D	
Explosive atmosphere	Continuous presence		Intermittent presence		Occasional presence	
Equipment category	1		2		3	

G : gas D : (Dust)

Amiens - FRANCE
Ex eds IIC T4 LCIE Ex 98.012
DIP A21 Ta = 85°C

Type FLe
N° 03123456
220/240 V 50/60 Hz - 0.35 A CLASS 1
IP 66/67 - 20°C ≤ Ta ≤ 55°C

096555

2 x 36 W (CEI 61-1)

Fluo "e" zone 21 and 22

New ATEX product marking:

- Since 1st July 2003, all electrical equipment for explosive atmospheres sold in Europe area must be ATEX approved and consequently bear the standard ATEX marking on the product name-plate in accordance with the new European product classification.

European classification of ATEX equipment :

- Directive 94/9 EC defines a new set of hazardous locations and makes a distinction between gas and dust atmospheres. The directive accordingly introduces zones 20, 21 and 22 which correspond to dust atmospheres, and the notion of categories 1, 2 and 3 for equipment.

2- The industrial environment

The presence of explosive gases or dusts on sites where future modifications may occur requires special attention regarding the choice of equipment in hazardous areas.

To allow easier modifications of the process without having to change the electrical equipment, ATX recommends the specification and use of equipment for zone 1 on all on-shore or off-shore sites.

standards and the industrial environment

ATX recommendations for choosing the correct equipment for zone 2

3 types of product are available for zone 2, depending on the industrial environment on site :

- "Safety Plus": zones 1 and 2 range which are already specified by some large oil companies requiring maximum safety

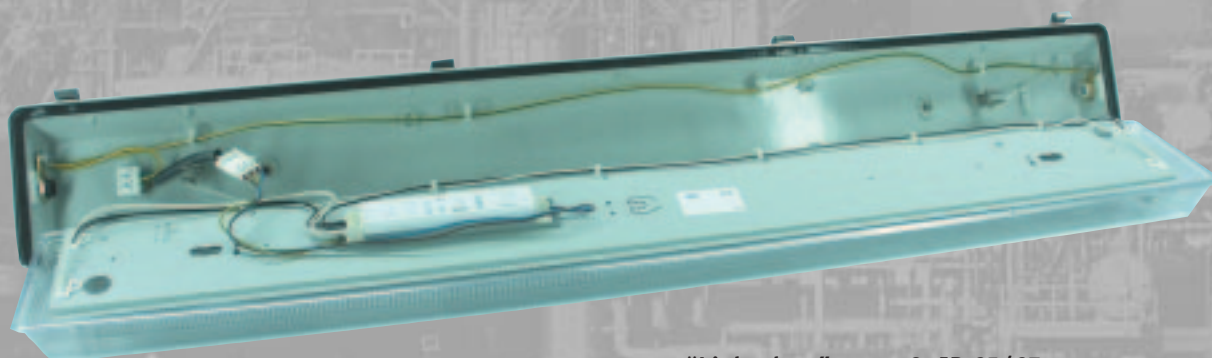
- High mechanical resistance : zone 2 heavy duty
- Low mechanical stress : zone 2 light duty



"Safety Plus": zones 1 and 2 IP 66/67
- 20 joules (IK10)



"Heavy duty": zone 2 IP 66/67
- 20 joules (IK10)



"Light duty": zone 2 IP 65/67
- 5 joules (IK08)

110/127 V - 220/240 V bi-pin "heavy duty" luminaires for armoured or non-armoured cable, zone 2 and 22



0963 39 Fluo 2 x 58 W



0963 37 Fluo 2 x 36 W



0963 36 Fluo 2 x 18 W

18, 36 and 58 W fluorescent luminaires

- Ø 26 mm bi-pin tubes, standard G13 lampholders
- Frequency: 50/60 Hz
- Power supply via high frequency ballast depending on version
110/127 V ± 10% AC/DC or 220/240 V ~ ± 10%, 198 to 264 V
- Instant start. Power factor ≥ 0.95
- Pre-impregnated fibre glass reinforced polyester body
- Polycarbonate diffuser hinged to body
- Polycarbonate multi-parabolic hinged reflector
- High temperature internal wiring
- Elastomer gasket
- Anti-vibration lampholders with spring system
- Open and close using an Allen key or flat screwdriver
(system automatically protects against over turning)
- Ballast fixed by screws

Standard version for non-armoured cable

- Three M25 threaded cable entries, 2 at one end and the third at the opposite end.
- Supplied with:
 - One M25 polyamide cable gland (sealed Ø 8 to 18.5 mm)
 - Two M25 blanking plugs
 - One 5 x 4 mm² max. flexible or 5 x 6 mm² maximum rigid connection terminal block

Tubes (W) not supplied	Weight (Kg)	Volume (dm ³)	Cat. No. 110/127 V	Cat. No. 220/240 V	Pack
2 x 18	5.5	32.3	0913 36	0963 36	1
2 x 36	7.9	54.2	0913 37	0963 37	1
2 x 58	9	65	0913 39	0963 39	1

Standard version for armoured cable

- Two M20 threaded cable entries with earth continuity plate for armoured cables at one end (cable gland not supplied)
- One clearance hole for M20 cable gland at the opposite end
- Supplied with
 - Two M20 blanking plugs and one M20 locknut
 - One 5 x 4 mm² max. flexible or 5 x 6 mm² max. rigid connection terminal block

Tubes (W) not supplied	Weight (Kg)	Volume (dm ³)	Cat. No. 110/127 V	Cat. No. 220/240 V	Pack
2 x 18	5.5	32.3	0913 46	0963 46	1
2 x 36	7.9	54.2	0913 47	0963 47	1
2 x 58	9	65	0913 49	0963 49	1

HEAVY DUTY VERSION

Fixing accessories

	Cat. No.	Pack
Set of 2 half clamps for fixing to Ø 49 mm (1" 1/2) or Ø 42 mm (1" 1/4) tube	0965 93	1
For fixing to Ø 60 mm (2") tube	0965 91	1
Set of 2 zinc-plated steel M8 ring bolts for suspending the unit	0965 94	1
Set of 2 aluminium brackets for fixing unit to flat surface.	0965 97	1
316 stainless steel version	0965 90	1
Set of 2 aluminium hinged brackets for adjusting direction of luminaire when wall-mounted..	0965 98	1
316 stainless steel version	0965 74	1
Set of 2 zinc-plated steel brackets for quick fixing with one hand	0965 96	1
316 stainless steel version	0965 89	1
Fall prevention fixing kit (1.20 m stainless steel chain) for M25 cable entry	0964 05	1
Fall prevention fixing kit (1.20 m stainless steel chain) for M20 cable entry	0964 06	1

For special options, please consult us:

- Ø 38 mm bi-pin tubes
- Ø 38 mm bi-pin tubes specially designed for low temperatures

- Lens fall prevention fixing kit
- Protection against chemical attack and scratches

Dimensions of fixing accessories (see page 36-37)

Installation method (see page 38-39)

Spare parts (see page 290)

Cable glands for armoured cable (see pages 252-262)

TECHNICAL DATA

Zones :

- 2 and 22

Classification :

- According to CENELEC:
 - Conforming to ATEX - 94/9 EC Directive and standard EN 50021
 - EC 0081 II 3 G : for gas EEx nR II T6
 - EC 0081 II 3 D T = + 85°C: for dust
- According to IEC :
 - Conforming to IEC standards 60079-15 Ex nR II T6
 - DIPA 22 TA = + 85°C

Approvals:

- Approved type FLn
- CENELEC LCIE 03 ATEX 6072
- IEC LCIE Ex 03.018
- declaration of conformity No. 50212
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”
- Conforming to electromagnetic compatibility (EMC) standards
 - EN 55015
 - EN 61547

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Impact resistance : IK10 according to EN 50102

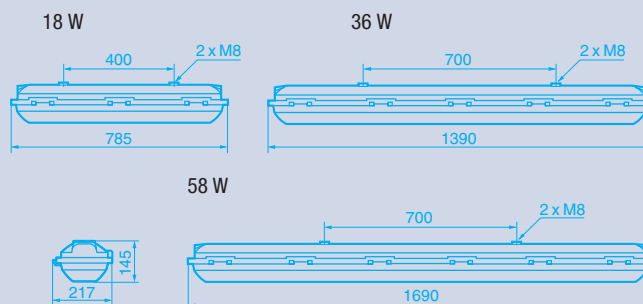
Operating temperature :

- 20°C to + 50°C

Anticorrosion treatment and climate protection : see page G50

Zone 2 et 22	ATEX	IEC	EC	II 3 G/D
EEx nR II	T6	T = 85°C	IP 66/67	IK 10

Dimensions (mm) :

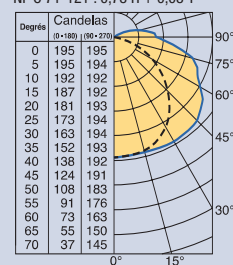


Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120 :

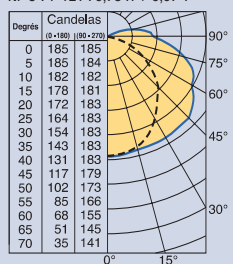
- Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

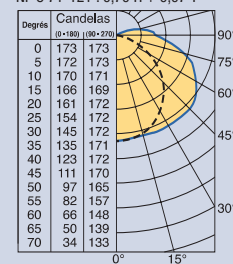
(2 x 18 W)
Efficiency 85,1 %
NF C 71-121 : 0,78 H + 0,08 T



(2 x 36 W)
Efficiency 80,5 %
NF C 71-121 : 0,73 H + 0,07 T



(2 x 58 W)
Efficiency 76,9 %
NF C 71-121 : 0,70 H + 0,07 T



Product features/customer benefits

- Multi-parabolic reflector : **increased efficiency**
- Centralized opening : **rapid maintenance**
- Opening system automatically protected : **no over turning possible**
- Heavy duty polyester body : **very robust**

Data sheet available on request

110/127 - 220/240V bi-pin "light duty" luminaires for armoured or non-armoured cable zone 2 and 22



300248 Fluo 1 x 58W



300245 Fluo 2 x 18W

LIGHT DUTY VERSION

18, 36 and 58 W fluorescent luminaires

- Ø 26 to 38 mm bi-pin tubes, standard G13 lampholders
- Frequency : 50/60 Hz
- Power supply via high frequency ballast depending on version
110/127 V ± 10% AC/DC or 220/240 V~ ± 10%, 198 to 264 V
- Instant start. Power factor ≥ 0.95
- Pre-impregnated fibre glass reinforced polyester body
- Polycarbonate diffuser
- White painted sheet steel reflector
- Elastomer gasket
- Closing system using stainless steel clips

Standard version for armoured and non-armoured cable

- 1 cable entry at each end for M20 cable gland (not supplied)
- Earth continuity at each end
- Supplied with :
 - Two M20 locknuts and one blanking plug
 - One 2 x (3 x 2.5 mm²) maximum flexible or rigid connection terminal block

Tube (W) not supplied	Weight (Kg)	Volume (dm ³)	Cat. No. 110/127 V	Cat. No. 220/240 V	Pack
1 x 18*	2.3	22.3		300244	1
2 x 18	2.3	22.3	300145	300245	1
1 x 36*	2.8	38	300146	300246	1
2 x 36	3.6	38	300147	300247	1
1 x 58*	3.4	45	300148	300248	1
2 x 58	4.4	45	300149	300249	1

* AC only

Fixing accessories

	Cat. No.	Pack
Set of 2 half clamps for fixing to Ø 49 mm (1" 1/2) or Ø 42 mm (1" 1/4) tube	0965 93	1
For fixing to Ø 60 mm (2") tube:	0965 91	1
Set of 2 zinc-plated steel M8 ring bolts for suspending the unit	0965 94	1
Set of 2 aluminium brackets for fixing unit to flat surface.	0965 97	1
Stainless steel version	0965 90	1
Set of 2 aluminium hinged brackets for adjusting direction of luminaire when wall-mounted..	0965 98	1
Stainless steel version	0965 74	1
Set of 2 zinc-plated steel brackets for quick fixing with one hand	0965 96	1
Stainless steel version	0965 89	1
Fall prevention fixing kit (1.20 m stainless steel chain) for M20 cable entry	0964 06	1

For special options, please consult us :

Dimensions of fixing accessories (see page 36-37)

Installation method (see page 38-39)

Spare parts (see page 290)

Cable gland :

- polyamide (see page 259)

- metal (see page 258)

- for armoured cable (see pages 252-262)

TECHNICAL DATA

Zones :

- 2 and 22

Classification :

- According to CENELEC:
 - Conforming to ATEX - 94/9 EC Directive and standard EN 50021
 - EC 0081 II 3 G: for gas EEx nR II T5 / T6
 - EC 0081 II 3 D T = + 85°C : for dust
- According to IEC:
 - Conforming to IEC standards 60079-15 Ex nR II T5 / T6
 - DIPA 22 TA = + 85°C

Approvals :

- Approved type EFn
- CENELEC LCIE 03 ATEX 6074
- IEC LCIE Ex 03.020
- declaration of conformity No. 50213
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”
- Conforming to electromagnetic compatibility (EMC) standards
 - EN 55015
 - EN 61547

Protection index :

- IP 65/67 according to EN 60529 and IEC 60529
- Impact resistance : IK08 according to EN 50102

Operating temperature :

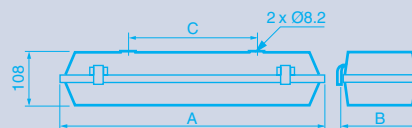
- 20°C to + 55°C

Anticorrosion treatment and climate protection:

- Page : G50

Zone 2 et 22	ATEX	IEC	EC	II 3 G/D
EEx nR II	T6 - T5	T = 85°C	IP 65/67	IK 08

Dimensions (mm) :



	A mm	B mm	C mm
1 x 18 W	702	102	500
2 x 18 W	702	172	500
1 x 36 W	1312	102	800
2 x 36 W	1312	172	800
1 x 58 W	1612	102	1100
2 x 58 W	1612	172	1100

Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120 :

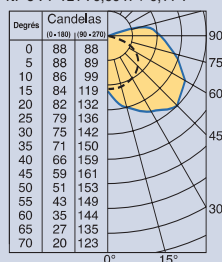
- Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

1 x 18 W

Efficiency 70,4 %

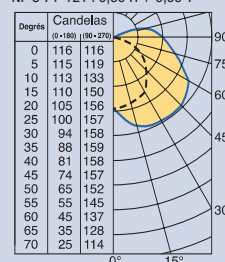
NF C 71-121 : 0,60 H + 0,11 T



2 x 18 W

Efficiency 68,9 %

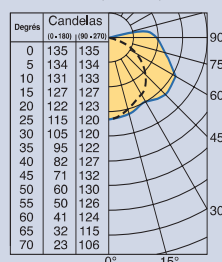
NF C 71-121 : 0,60 H + 0,09 T



1 x 36 W

Efficiency 65,4 %

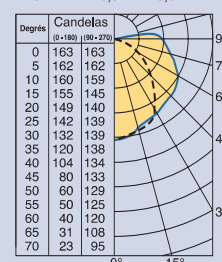
NF C 71-121 : 0,56 H + 0,09 T



2 x 36 W

Efficiency 64,1 %

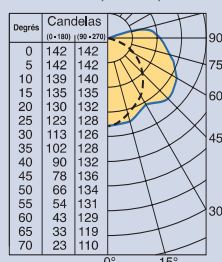
NF C 71-121 : 0,57 H + 0,07 T



1 x 58 W

Efficiency 67,8 %

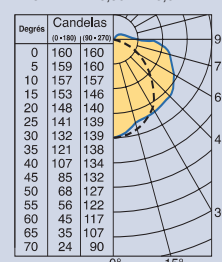
NF C 71-121 : 0,58 H + 0,09 T



2 x 58 W

Efficiency 63,6 %

NF C 71-121 : 0,56 H + 0,07 T

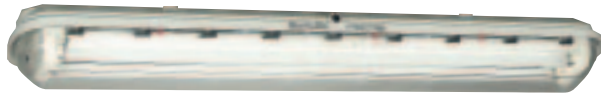


Data sheet available on request

220/240 V normal and emergency "heavy duty" luminaires for armoured or non-armoured cable zone 2 and 22



0963 29 Fluo 2 x 58 W



0963 28 Fluo 2 x 36 W



0963 27 Fluo 2 x 18 W



Charge indicating light

18, 36 and 58 W fluorescent luminaires for normal and emergency lighting

- Ø 26 mm bi-pin tubes, standard G13 lampholders
- Frequency : 50/60 Hz
- Common power supply circuit to provide both normal lighting and emergency lighting
- Power supply via high frequency ballast 220/240 V~ (± 10%)
- Instant start - Power factor ≥ 0.95
- Battery voltage : 18 W : 6 V 4 Ah - 36 W/58 W: 8.4 V 4 Ah
- Pre-impregnated fibre glass reinforced polyester body
- Polycarbonate multi-parabolic hinged reflector
- Polycarbonate diffuser hinged to body
- High temperature internal wiring
- Elastomer gasket
- Anti-vibration lampholders with spring system
- Operation : mains power switched on: 2 tubes lit
mains power switched off: 1 tube lit (battery back up)
- Green LED on when the installation is operating normally and off in the event of a mains power failure or battery fault
- Battery-back up tube identified with green mark
- Open and close using an Allen key or flat screwdriver (system automatically protects against over turning)
- Battery pack easily interchangeable on site, fixed by screws
- Ballast and converter assembly fixed by screws

With 2 switches (mains supply and battery) which operate on opening

- Power supply to the unit (mains supply and battery) cut off by two positive safety switches which operate when diffuser is opened, for replacing tubes with mains power switched on

Standard version for non-armoured cable

- Supplied with
 - One M25 polyamide cable gland (sealed Ø: 8 to 18.5 mm)
 - Two M25 blanking plugs
- 18 W version: one 4 x 4 mm² flexible or 4 x 6 mm² rigid connection terminal block max. including one earth terminal
- 36/58 W version: one 2 x 4 x 4 mm² flexible or 2 x 4 x 6 mm² rigid connection terminal block max. including 2 earth terminals

Tubes (W) (not supplied)	1 tube standby time	Light output	Weight (Kg)	Volume (dm ³)	Cat. No. 220/240 V	Pack
2 x 18	3 hrs	29%	7.3	32.3	0967 04	1
2 x 36	3 hrs	16%	9.6	54.2	0967 05	1
2 x 58	3 hrs	11%	10.7	65	0967 06	1

HEAVY DUTY VERSION

Standard version for armoured cable

- Two M20 threaded cable entries with earth continuity plate at one end (cable gland not supplied)
- One clearance hole for M20 cable gland at the opposite end
- Supplied with:
 - Two M20 blanking plugs and one M20 locknut
- Equipped with an IP 2 X terminal strip cover for maintenance of the battery, ballast and lampholders with mains power switched on
- 18 W version : one 4 x 4 mm² flexible or 4 x 6 mm² rigid connection terminal block max. including one earth terminal
- 36/58 W version : one 2 x 4 x 4 mm² flexible or 2 x 4 x 6 mm² rigid connection terminal block max. including two earth terminals

Tubes (W) (not supplied)	1 tube standby time	Light output	Weight (Kg)	Volume (dm ³)	Cat. No. 220/240 V	Pack
2 x 18	3 hrs	29 %	7.6	32.3	0967 01	1
2 x 36	3 hrs	16 %	9.9	54.2	0967 02	1
2 x 58	3 hrs	11 %	10.7	65	0967 03	1

With 1 switch (battery) which operates on opening

- Positive safety switch cutting battery off when diffuser is opened

Standard version for non-armoured cable

Tubes (W) (not supplied)	1 tube standby time	Light output	Weight (Kg)	Volume (dm ³)	Cat. No. 220/240 V	Pack
2 x 18	3 hrs	29 %	7.6	32.3	0963 27	1
2 x 36	3 hrs	16 %	9.9	54.2	0963 28	1
2 x 58	3 hrs	11 %	10.7	65	0963 29	1

Standard version for armoured cable

Tubes (W) (not supplied)	1 tube standby time	Light output	Weight (Kg)	Volume (dm ³)	Cat. No. 220/240 V	Pack
2 x 18	3 hrs	29 %	7.6	32.3	0963 56	1
2 x 36	3 hrs	16 %	9.9	54.2	0963 57	1
2 x 58	3 hrs	11 %	10.7	65	0963 58	1

Fixing accessories

- Voir page 12

For special options, please consult us:

- Ø 38 mm bi-pin tubes
- Ø 38 mm bi-pin tubes specially designed for low temperatures
- Tension 110 V
- Protection against chemical attack and scratches

Dimensions of fixing accessories (see page 36-37)

Installation method (see page 37-38)

Spare parts (see page 290)

Cable glands for armoured cable (see pages 252-262)

TECHNICAL DATA

Zones :

- 2 and 22

Classification :

- According to CENELEC :
 - Conforming to ATEX - 94/9 EC Directive and standard EN 50021
 - EC 0081 II 3 G : for gas EEx nR II T6
 - EC 0081 II 3 D T = + 85°C: for dust
- According to IEC :
 - Conforming to IEC standards 60079-15 Ex nR II T6
 - DIPA 22 TA = + 85°C

Approvals :

- Approved type FLn-EM
- CENELEC LCIE 03 ATEX 6166X
- IEC LCIE Ex 03.025X
- declaration of conformity No. 50225
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”
- Conforming to electromagnetic compatibility (EMC) standards
 - EN 55015
 - EN 61547

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Impact resistance: IK10 according to EN 50102

Operating temperature :

- 20°C to + 50°C

Anticorrosion treatment and climate protection : see page G50

Emergency funtion :

2 tubes

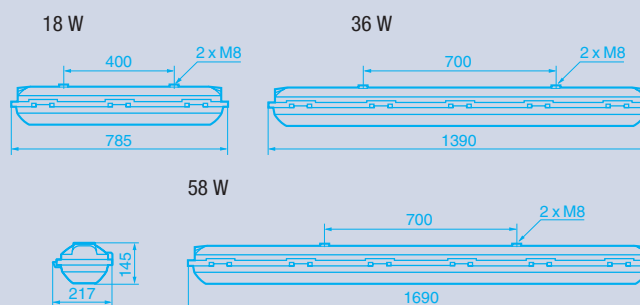
	Mains power on	Mains power off
Fluorescent luminaire on		
Fluorescent luminaire off		

Product features/customer benefits

- Multi-parabolic reflector : **increased light efficiency**
- Centralised opening : **rapid maintenance**
- Opening system automatically protected : **no over turning possible**
- Heavy duty polyester body : **very robust**

Zone 2 et 22	ATEX	IEC	EC	II 3 G/D
EEx nR II	T6	T = 85°C	IP 66/67	IK 10

Dimensions (mm) :



Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120 :

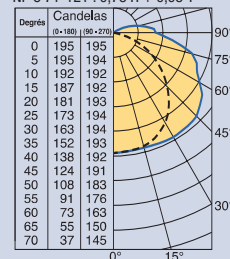
- Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

(2 x 18 W)

Efficiency 85,1 %

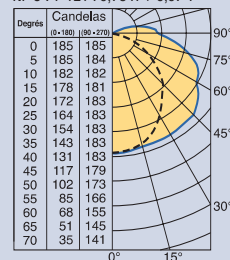
NF C 71-121 : 0,78 H + 0,08 T



(2 x 36 W)

Efficiency 80,5 %

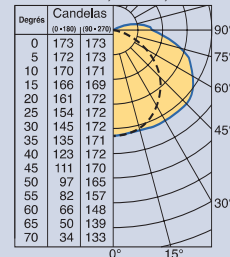
NF C 71-121 : 0,73 H + 0,07 T



(2 x 58 W)

Efficiency 76,9 %

NF C 71-121 : 0,70 H + 0,07 T



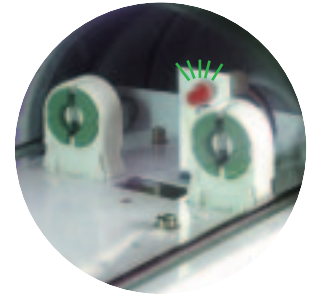
220/240 V normal and emergency "light duty" luminaires for armoured or non-armoured cable zone 2 and 22



300239 2 x 58W



300235 2 x 18W



Charge indicating light

LIGHT DUTY VERSION

18, 36 and 58 W fluorescent luminaires for normal and emergency lighting







- Ø 26 mm mono and bi-pin tubes, standard G13 lampholders
- Frequency : 50/60 Hz
- Common power supply circuit to provide both normal lighting and emergency lighting
- Power supply via high frequency ballast 220/240 V~ (± 10%)
- Instant start - Power factor ≥ 0.95
- Battery voltage : 18 W : 6 V 4 A h - 36 W/58 W : 8.4 V 4 A h
- Pre-impregnated fibre glass reinforced polyester body
- Painted sheet steel reflector
- Polycarbonate diffuser
- Elastomer gasket
- Operation : mains power switched on: 2 tubes lit, except 300238
mains power switched off: 1 tube lit (battery back up)
- Battery power supply cut off by a switch which operates when diffuser is opened
- Green LED on when the installation is operating normally and off if there is a mains power failure or a battery fault
- Battery-back up tube identified with green mark
- Battery pack easily interchangeable on site, fixed by screws and equipped with a fast connector
- Ballast and converter fixed by screws
- Closing system using stainless steel clips

Standard version for armoured and non-armoured cable

- One cable entry at each end for M20 cable gland (not supplied)
- Supplied with:
 - Two M20 locknuts and one blanking plug
 - One 2 x (5 x 2.5 mm²) flexible or rigid connection terminal block including 2 earth terminals

Tubes (W) (not supplied)	1 tube standby time	Light output	Weight (Kg)	Volume (dm ³)	Cat. No. 220/240 V	Pack
2 x 18	3 h	29 %	4.5	22.3	300 235	1
2 x 36	3 h	16 %	7	38	300 237	1
2 x 58	3 h	16 %	7.5	45	300 239	1

Fixing accessories

	Cat. No.	Pack
Set of 2 half clamps for fixing to Ø 49 mm (1" 1/2) or Ø 42 mm (1" 1/4) tube For fixing tor Ø 60 mm (2") tube:	 0965 93	1
Set of 2 zinc-plated steel M8 ring bolts for suspending the unit	 0965 94	1
Set of 2 aluminium brackets for fixing unit to flat surface	 0965 97	1
316 stainless steel version	0965 90	1
Set of 2 aluminium hinged brackets for adjusting direction of luminaire when wall-mounted..	 0965 98	1
316 stainless steel version	0965 74	1
Set of 2 zinc-plated steel brackets quick fixing with one hand	 0965 96	1
316 stainless steel version	 0965 89	1

For special options, please consult us:

- Tension 110 V
- Ø 38 mm bi-pin tubes
- Ø 38 mm bi-pin tubes specially designed for low temperatures
- Emergency only

Dimensions of fixing accessories (see page 36-37)

Installation method (see page 38-39)

Spare parts (see page 290)

Cable gland :

- polyamide (see page 259)
- metal (see page 258)
- for armoured cable (see pages 252-262)

TECHNICAL DATA

Zones :

- 2 and 22

Classification:

- According to CENELEC:
 - Conforming to ATEX - 94/9 EC Directive and standard EN 50021
 - EC 0081 II 3 G : for gas EEx nR II T6
 - EC 0081 II 3 D T = + 85°C : for dust
- According to IEC :
 - Conforming to IEC standards 60079-15 Ex nR II T6
 - DIPA 22 TA = + 85°C

Approvals:

- Approved type EFn-EM
- CENELEC LCIE 03 ATEX 6073
- IEC LCIE Ex 03.019
- **CE** declaration of conformity No. 50219
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”
- Conforming to electromagnetic compatibility (EMC) standards
 - EN 55015
 - EN 61547

Protection index :

- IP 65/67 according to EN 60529 and IEC 60529
- Impact resistance : IK08 according to EN 50102

Operating temperature :

- 20°C to + 50°C

Anticorrosion treatment and climate protection : See page G50

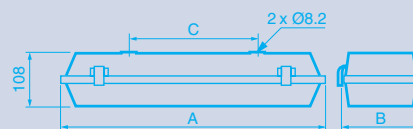
Emergency function :

2 tubes

	Mains power on	Mains power off
Fluorescent luminaire on		
Fluorescent luminaire off		

Zone 2 et 22	ATEX	IEC	EC	II 3 G/D
EEx nR II	T6	T = 85°C	IP 65/67	IK 08

Dimensions (mm) :



	A mm	B mm	C mm
2 x 18 W	702	172	500
2 x 36 W	1312	172	800
2 x 58 W	1612	172	1100

Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120 :

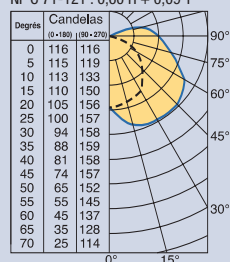
- Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

2 x 18 W

Efficiency 68,9 %

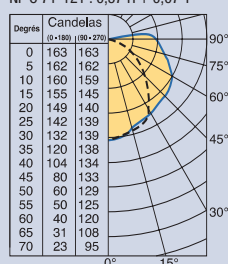
NF C 71-121 : 0,60 H + 0,09 T



2 x 36 W

Efficiency 64,1 %

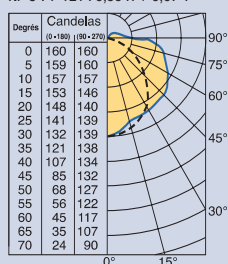
NF C 71-121 : 0,57 H + 0,07 T



2 x 58 W

Efficiency 63,6 %

NF C 71-121 : 0,56 H + 0,07 T



Floodlight for armoured and non-armoured cable

zone 2 and 22



0950 47

70 to 400 W floodlight

- 230/240 V \pm 10% 50 Hz compensated power supply
 - Power factor \geq 0.9
- Painted aluminium alloy cover
- Glass sealed on hinged frame
- Anodised aluminium internal reflector
- E40 lampholder (E27 for 70W HP Sodium)
- Operates in any position - Subject to lamp operation
- 2 self-tightening connection terminal blocks: capacity : 2 x 6 mm² max.
 - 2 earth terminals capacity 6 mm²
- Two threaded cable entries
- Supplied with:
 - One M20 blanking plug

Catalogue numbers

Permissible lamps (not supplied)	Type		Weight (kg)	Volume (dm ³)	Cat. No. 230/240V	Pack
	(1)	(2)				
70 W HP sodium	x	x	12.1	62.5	0950 33	1
150 W HP sodium	x	x	12.9	62.5	0950 36	1
250 W HP sodium	x	x	14.3	62.5	0950 42	1
400 W HP sodium	x	x	16	62.5	0950 43	1
150 W metal halide	x	x	12.9	62.5	0950 37	1
250 W metal halide	x	x	14.3	62.5	0950 46	1
400 W metal halide		x	16	62.5	0950 47	1
250 W mercury vapour	x		12.9	62.5	0950 44	1
400 W mercury vapour	x	x	13.8	62.5	0950 45	1

(1) Ovoid - (2) Tubular

Fixing accessories

	Cat. No.	Pack
Fall prevention fixing kit (1.20 m stainless steel chain) for M20 cable entry	0964 06	1

For special options, please consult us:

- **Additional lamp types**
 - (80 and 125 W mercury)
 - **Other voltages**
 - **Sealed polycarbonate protection for the glass**
- Cable gland :**
- polyamide (see page 259)
 - metal (see page 258)
 - for armoured cable (see pages 252-262)

Zone 2 et 22	ATEX	IEC	EC	II 3 G/D
EEx nR II	T2-T3-T4-T5	T = 102 to 213°C		IP 66

TECHNICAL DATA

Zones : 2 and 22

Classification:

- According to CENELEC:
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50021
 - EC 0081 Ex II 3 G: for gas EEx nR II T (*)
 - EC 0081 Ex II 3 D T = (*) : for dust
- According to IEC:
 - Conforming to IEC standards 60079-15 Ex nR II T (*)
 - DIPA 22 TA = (*)

Source and power	Dust	Gas		
	Surface temperature Ta = 40°C	Temp. class Ta = + 40°C	Temp. class Ta = + 50°C	Temp. class Ta = + 55°C
70W Sodium	+ 102°C	T4	T4	T4
150W Sodium	+ 115°C	T4	T4	T4
250W Sodium	+ 145°C	T3	T3	T3 (Cable spr. temp.=82°C)
250W Halide	+ 160°C	T3	T3	T3
250W Mercury	+ 166°C	T3	T3	T3 (Cable spr. temp.=81°C)
400W Sodium	+ 183°C	T3	T3 (Cable spr. temp.=87°C)	T2 (Cable spr. temp.=92°C)
400W Halide	+ 213°C	T2	T2 (Cable spr. temp.=84°C)	T2 (Cable spr. temp.=89°C)
400W Mercury	+ 212°C	T2	T2 (Cable spr. temp.=84°C)	T2 (Cable spr. temp.=89°C)
150W Halide	+ 115°C	T4	T4	T4

Approvals :

- Approved type PjN
- CENELEC LCIE 03 ATEX 6070
- IEC LCIE Ex 03.016
- **CE** declaration of conformity No. 50215
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1
"combustible dust"
- Conforming to electromagnetic compatibility (EMC) standards
– EN 55015

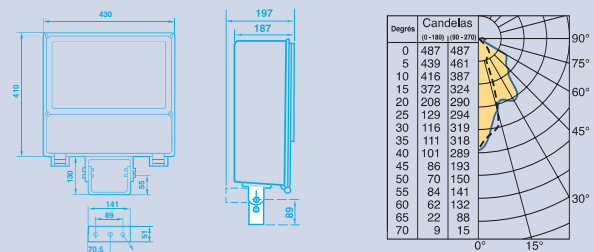
Protection index :

- IP 66 according to EN 60529 and IEC 60529

Operating temperature : - 20°C to + 55°C

Anticorrosion treatment and climate protection : See page G50

Dimensions (mm) :



Product features/customer benefits

- Aluminium alloy body : **lighter**
- Hinged fixings : **easier installation**
- Pivoting front : **rapid maintenance**

Data sheet available on request



0969 01 + 0958 55

For incandescent lamp

- 60 to 150 W max., mixed 100 W max.
- E27 lampholder
- Grey painted aluminium alloy base
- Glass diffuser
- Silicone gasket
- Screw locking mechanism
- Operates in any position
- Connection to lampholder via two 2 x 2.5 mm² terminals
- Internal earth: Two 2 x 2.5 mm² terminals
- External earth: 1 x 4 mm² bracket

Three M20 threaded cable entries in “ T ” formation

Supplied with : One M20 cable gland (sealed Ø: 6.5 to 14.5 mm)
Two M20 blanking plugs

Catalogue numbers

Permissible lamps (not supplied)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
60 à 150 W incandescente 100 W mixed	3	15	0969 01	1

Accessories

Spare parts	Cat. No.	Pack
Zinc-plated steel protective guard	0958 55	1
Lamp glass	0958 56	1

For special options, please consult us :

- Bulkhead light for zone 21

Increased safety cable gland

Cable gland :

- polyamide (see page 259)
- metal (see page 258)
- for armoured cable (see pages 252-262)

Reducers and adaptors (see page 260)

Zone 2 & 22	ATEX	IEC	EC	II 3 G/D
EEx nR II	T5 or T4	T = 91 to 115°C		IP 65

TECHNICAL DATA

Zones : 2 and 22

Classification :

- According to CENELEC:
 - Conforming to ATEX - 94/9 EC directive and standard EN 50021
 - EC 0081 II 3 G: for gas EEx n II T (*)
 - EC 0081 II 3 D T (*) : for dust
- According to IEC :
 - Conforming to IEC standards 60079-15 Ex n II T (*)
 - DIPA 21 TA = (*)

Power	Dust		Gas	
	Surface temp for Ta = + 40°C	Temp class for. Ta = + 40°C	Temp class for. Ta = + 50°C	Temp class for. Ta = + 50°C
60W incandescent	+ 91°C	T5	T4	
75W incandescent	+ 94°C	T5	T4	
100W incandescent	+ 104°C	T4	T4	
100W mixed	+ 115°C	T4	T4	
150W incandescent	+ 110°C	T4	T4	

Approvals :

- Approved type HbN 150
- CENELEC LCIE 03 ATEX 6167X
- IEC LCIE Ex 03.026X
- declaration of conformity No. 50220
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1
“combustible dust”

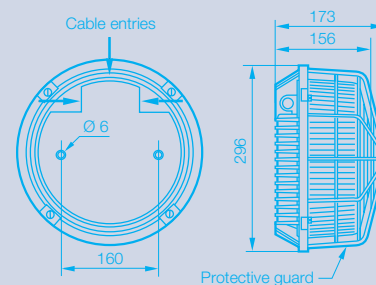
Protection index :

- IP 65 according to EN 60529 and IEC 60529

Operating temperature : - 40°C to + 50°C

Anticorrosion treatment and climate protection : See page G50

Dimensions (mm) :

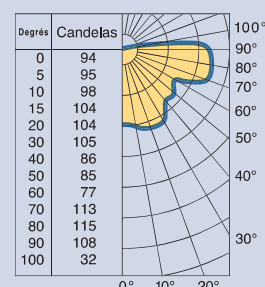


Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120 :

- Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

150 W incandescent : 0,62 J + 0,10 T



Data sheet available on request

5 Types of fixing

Comprehensive range of ATEX and IEC approved wellglass luminaires, suitable for all fixing methods used on sites



Ceiling 700 W mounting



Conduit 100 W



70 W pole on 90°



250 W Wall-mounting



150 W pole on 25°

Dedicated accessories

Various types of dome reflectors and wire guard designed for all methods of use generally, found in industrial installations



0950 29
70W HP Sodium - ceiling



0952 41 + 0950 73
100W HP Sodium - pole 25°



0950 68 150W
HP Sodium - wall



0952 68 + 0950 74
400W mercury vapour - pole 90°

70 to 400 W wellglass luminaires

- Power supply 230/240 V (+ 6% - 10%) 50 Hz
- Instant relighting with auxiliary halogen lamps, depending on model, (lamps not supplied)
- Wellglass dimensions on page 62
- Fast relighting for 70 W and 150 W sodium : 5 to 30 seconds depending on the duration of the mains power supply failure
- Optional fibre glass reinforced polyester reflector (see accessories)
- Painted aluminium body and fixings
- High temperature silicone gasket
- Connection via terminal block (2 x 4 mm² max.)
- Ceiling mounting : Four M20 threaded cable entries, supplied with three blanking plugs
- Wall mounting : Four M20 threaded cable entries, supplied with three blanking plugs
- Mounting under tube : One 3/4 NPT cable entry (possible adaptor for M20)
- Pole mounting : One 1"1/4 NPT cable entry

Fixings on ceiling or under tube

	Weight (Kg)	Volume (dm ³)	Cat. No. Ceiling	Cat. No. Conduit	Pack
High pressure sodium					
70 W	7.4	39	0950 29	0950 59	1
100 W	9	55	0951 32	0951 40	1
150 W	9	55	0950 67	0950 66	1
150 W + 2 x 150 W halogen	14	70	0951 35	0950 62	1
250 W	16	70	0950 30	0950 50	1
400 W	19	85.2	0950 31	0950 51	1
Incandescent					
100 W	7.4	39	0951 33	0951 41	1
150 W	7.4	39	0951 37	0951 45	1
Halogen					
100 W	7.4	39	0951 33	0951 41	1
150 W	7.4	39	0951 37	0951 45	1
Mercury vapour					
125 W	7.4	39	0951 34	0951 42	1
250 W	14	70	0950 32	0950 52	1
400 W	19	85.2	0951 39	0951 47	1
Metal halide					
150 W	9	55	0951 36	0951 43	1
250 W	16	70	0951 38	0951 46	1
400 W	19	85.2	0950 34	0950 54	1

Wall or pole mounting

	Weight (Kg)	Volume (dm ³)	Cat. No. wall	Cat. No. 25° pole	Cat. No. 90° pole	Pack
High pressure sodium						
70 W	7.4	39	0950 60	0950 61	0952 55	1
100 W	9	55	0951 48	0952 41	0952 56	1
150 W	9	55	0950 68	0950 69	0952 59	1
150 W + 2 x 150 W halogen	14	70	0950 64	0950 65	0952 60	1
250 W	16	70	0950 40	0952 46	0952 64	1
400 W	19	85.2	0950 41	0952 49	0952 67	1
Incandescent						
100 W	7.4	39	0952 15	0952 42	0952 57	1
150 W	7.4	39	0952 18	0952 45	0952 62	1
Halogen						
100 W	7.4	39	0952 15	0952 42	0952 57	1
150 W	7.4	39	0952 18	0952 45	0952 62	1
Mercury vapour						
125 W	7.4	39	0952 16	0952 43	0952 58	1
250 W	14	70	0952 19	0952 47	0952 65	1
400 W	19	85.2	0952 21	0952 51	0952 68	1
Metal halide						
150 W	9	55	0952 17	0952 44	0952 61	1
250 W	16	70	0952 20	0952 48	0952 66	1
400 W	19	85.2	0952 22	0952 52	0952 69	1

Accessories

Dome reflectors

	Cat. No.	Pack
70 W to 150 W wellglass luminaires (except 150 W + 2 x 150 W halogen)	0950 70	1
150 W HP sodium + (2 x 150 W halogen) wellglass luminaires	0950 76	1
250 W and 400 W wellglass luminaires	0950 76	1

30° reflector

70 W to 150 W wellglass luminaires (except 150 W + 2 x 150 W halogen)	0950 71	1
150 W HP sodium + (2 x 150 W halogen) wellglass luminaires	0950 72	1
250 W and 400 W wellglass luminaires	0950 72	1

Guard

70 W to 150 W wellglass luminaires (except 150 W + 2 x 150 W halogen)	0950 73	1
150 W HP sodium + (2 x 150 W halogen) wellglass luminaires	0950 74	1
250 W and 400 W wellglass luminaires	0950 74	1

For special options, please consult us

- Other voltages
- Refractor

Technical data (see page 62)

TECHNICAL DATA

Zone : 2 and 22

Classification:

- According to CENELEC:
 - Conforming to ATEX - 94/9 EC Directive and standard EN 50021
 - CE 0081 Ex II 3 G: for gas EEx nR II T (*)
 - EC 0081 Ex II 3 D T (*): for dust
 - According to IEC:
 - Conforming to IEC standards 60079-15 Ex nR II T (*)
- DIPA 22 TA = (*)

Power	Dust class	T° class for	T° class for	T° class for
		Ta = + 40°C	Ta = + 50°C	Ta = + 55°C
70 W HPS	+ 98°C	T5	T4	T4
100 W HPS incandescent	+ 128°C	T4	T3	T3
100 W halogen	+ 128°C	T4	T3	T3
125W mercury vapour	+ 128°C	T4	T3	T3
150 W halide	+ 128°C	T4	T3	T3
150 W incandescent	+ 128°C	T4	T3	T3
150 W halogen	+ 128°C	T4	T3	T3
150 W HPS	+ 128°C	T4	T3	T3
250 W HPS	+ 122°C	T4	T4	T3
250 W halide	+ 128°C	T4	T3	T3
250 W mercury vapour	+ 128°C	T4	T3	T3
400 W HPS	+ 152°C	T3	T3	T3
400 W halide	+ 156°C	T3	T3	T3
400 W mercury vapour	+ 156°C	T3	T3	T3
150 W HP sodium	+ 176°C	T3	T3	T3
2 x 150 W halogen				

Approvals:

- Approved type Ln
- CENELEC LCIE 03 ATEX 6071
- IEC LCIE Ex 03.017
- CE declaration of conformity No. 5.0217
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”

Protection index :

- IP 66 according to EN 60529 and IEC 60529
- Mechanical resistance IK 07 according to EN 50102

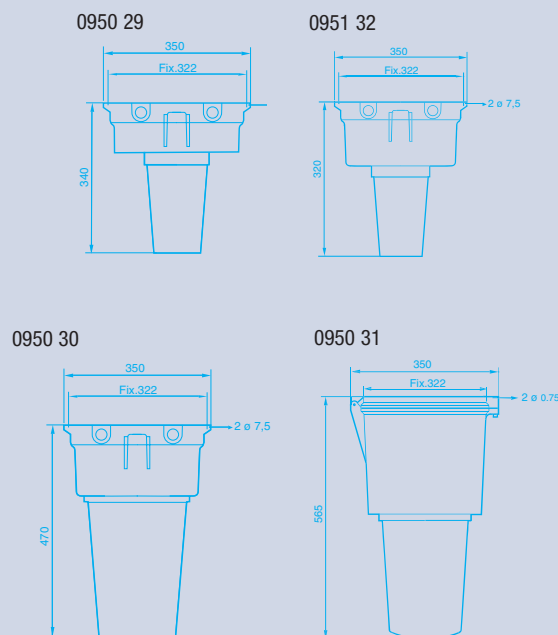
Operating temperature :

- 20°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Zone 2 & 22	ATEX	IEC	EC	II 3 G/D
EEx nR II	T3 - T4 - T5	T = 98 to 176°C	IP 65	IK 07

Dimensions (mm) :

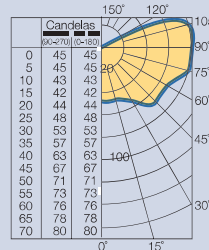


Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120 :

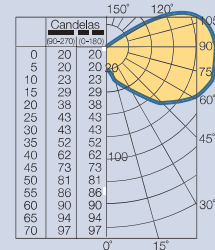
- Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

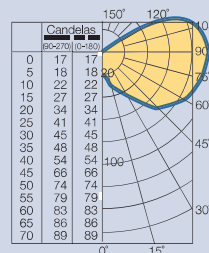
70 W sodium
Efficiency 74,6 %



250 W sodium
Efficiency 89,1 %



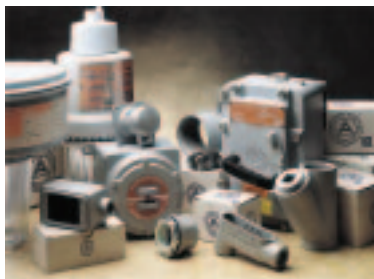
400 W sodium
Efficiency 82,3 %



ATX and the EGS group

ATX is part of the EGS group, which plays a major part worldwide in all sectors involved in the exploration of gas and oil; EGS manufactures electrical equipment for use in potentially explosive atmospheres as well as industrial electrical equipment. The EGS group incorporates such prestigious brands as Appleton, ATX, Curlee, Easyheat, ETP, McGill, Neer, Nelson, O-Z/Gedney and Sola/Hevi-Duty, and is also part of the Industrial Automation Division of the Emerson Electric group.

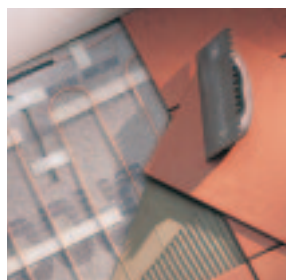
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by performance



Appleton specialises in the manufacture of connectors and joints for ducted installations, connection boxes, power and lighting sockets designed for industrial applications as well as use in hazardous areas. For more information, visit the website: www.appletonelec.com



Curlee manufactures junction boxes, motor starters, control panels and switchboards designed for use in potentially explosive atmospheres. CURLEE has built its reputation on the quality of its products and on its capacity to produce customised products to extremely tight deadlines. For more information, visit the website: www.egs-curlee.com



Easy Heat manufactures special heating cables designed for multiple applications: underfloor heating, freeze protection system for roofs and pipes, de-icing and snow-clearing system for roads, and temperature-controlled storage. For more information, visit the website: www.easyheat.com



Nelson Heat Trace manufactures all the components needed for heat trace systems: self-regulating heating cables and constant power cables, mineral insulated cables and customised regulation and control systems. For more information, visit the website: www.nelsonheaters.com



O-Z/Gedney specialises in the manufacture of connectors, joints, cable entries for ducted and cabled installations, and connection and control boxes. For more information, visit the website: www.o-zgedney.com



Sola/Hevi-Duty manufactures a complete range of inverters, stabilised power supplies, transformers, and voltage regulators. For more information, visit the website: www.solaheviduty.com

Luminaires

In a separate, comprehensive catalog, Appleton also offers a complete line of products for hazardous locations, fully tested to NEC and CEC standards. Ask your local representative about the Appleton brand or visit the Appleton web site at www.appletonelec.com for details.



Compliances

- Class I, Div. 2, Groups A,B,C,D
- Class II, Div. 2 Groups E,G
- Marine Type Electric Fixture Outside Type (Salt Water)
- NEMA 4X

Materials

- Housing: Fiberglass reinforced polyester
- Lens: Polycarbonate
- Hubs: Stainless steel

Features

- No tools required to access lamps
- Integral switch disconnects power to ballast and lamps when lens is opened

Wattage Range

- (2) or (4) 40W F40BX PL Fluorescent
- (2) 32W T8 Linear Fluorescent
- (2) 44W T8-HO Linear Fluorescent
- (2) 40W T12 Linear Fluorescent
- (2) 60W T12-HO Linear Fluorescent
- (3) 32W T8 Linear Fluorescent

Input Voltage and Frequency

- 120V, 60Hz
- 277V, 60Hz
- Others upon request

Refer to Appleton Master Catalog Section F3 for more information

Luminaires



Wellglass "Mercmaster III Series"

Compliances

- UL Listed
- CSA Certified
- Class I, Div. 2, Groups A,B,C,D
- Class II, Div. 1 and 2; Groups E,F,G
- Class III
- NEMA 4X
- CSA 4X
- Simultaneous Exposure
Class I, Div. 2; Class II, Div. 1

Materials

- Housing: Copper free aluminum with epoxy powder coating
- Globe: Heat resistant glass
- Hardware: Stainless steel

Features

- Multiple optical choices

- Cool operating temperature
- Superior corrosion resistance

Wattage Range

- 35W–400W High Pressure Sodium
- 50W–400W Mercury Vapor
- 50W–400W Metal Halide
- 150W–400W Pulse Start Metal Halide

Input Voltage and Frequency

- 120V, 60Hz
- 208V, 60Hz
- 240V, 60Hz
- 277V, 60Hz
- 480V, 60Hz
- Others upon request

Refer to Appleton Master Catalog Section F1 for more information



Floodlight "Areamaster Series"

Areamaster Series

Compliances

- General Duty
- Marine Duty
- Class I, Div. 2 Groups A,B,C,D Hazardous Location

Materials

- Housing : Copper free aluminum with bronze polyester coating
- Lens : Tempered glass
- Gaskets: Silicone rubber

Features

- Slip fit or trurnium mounting available
- Corrosion resistant

Wattage Range

- 70W–1000W High Pressure Sodium
- 175W–1500W Metal Haloid
- 100W–1000W Mercury Vapor
- 200W–400W Pulse Start Metal Halide

Input Voltage and Frequency

- 120V, 60Hz
- 208V, 60Hz
- 240V, 60Hz
- 277V, 60Hz
- 480V, 60Hz
- Others upon request

Refer to Appleton Master Catalog Section Q for more information

Fluorescent luminaires for easy installation

“Easy fixing”



Quick installation

Time-saving features:

- Sliding gear tray
- Plug-in terminal block
- Clip-on guard
- Quick and easy installation of bi-pin fluorescent luminaires with G13, and G11 lampholders in the compact fluorescent lamp version.

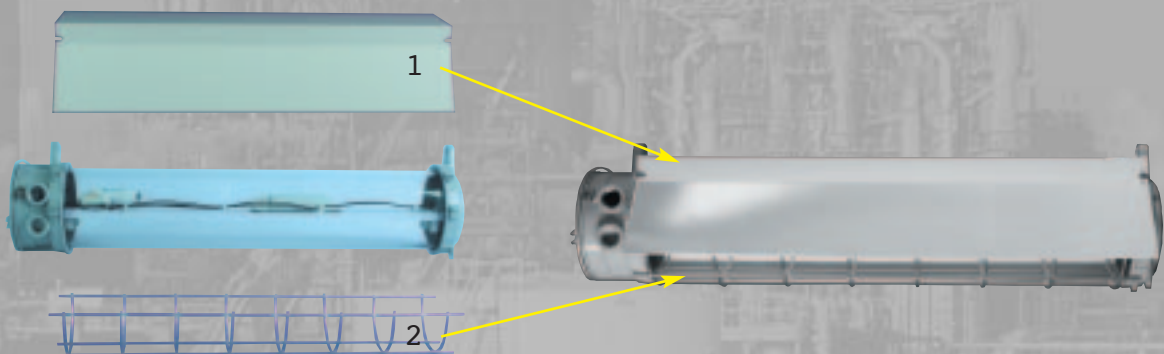


Sliding gear tray



Plug-in terminal block

Separate assembly of the guard and external reflector



Fluorescent luminaires with safety in mind

Time before opening clearly displayed

The unit access cover clearly indicates the cooling period to be observed before opening the unit.

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• Equipment for zones 1 & 2 and 21 & 22	
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Cylindrical fluorescent luminaires 230/240 V - 50 Hz for armoured and non-armoured cable **flameproof**



0948 06 FLD 2 x 58W



0948 05 FLD 2 x 36W



0948 04 FLD 2 x 18W



0948 04 with reflector 948 69 and protective guard 0948 73

18, 36 and 58 W fluorescent luminaires with ferromagnetic ballast

- Single and twin tubes
- Borosilicate glass sealed tube
- Zamak end caps and cover anticorrosion treated and painted grey
- Threaded access cover with O ring seal
- High temperature internal wiring
- Connection via 2 x 3 x 2.5 mm² terminals
- Two 3/4 NPT threaded cable entries for 230 V and two M20 threaded entries for 240 V version
- Supplied with a 3/4 NPT or M20 blanking plug (cable gland not supplied)
- External earth via bracket : 4 mm²
- Operates in any position
- Fixings (see accessories opposite)

For Ø 26 or 38 mm G13 fluorescent tubes

- Compensated power supply 230 V or 240 V (+ 6%, - 10%) - 50 Hz (power factor ≥ 0.9). Starter ignition

Tube (W) (not supplied)	Group	Weight (kg)	Volume (dm ³)	Cat. No. 230 V 3/4NPT	Cat. No. 240 V M20	Pack
1 x 18	IIC	9	58	0948 00	0948 26	1
1 x 36	IIB	14.7	99	0948 01	0948 27	1
1 x 58	IIB	17	119	0948 02	0948 28	1
2 x 18	IIC	9.7	58	0948 04	0948 29	1
2 x 36	IIB	15.3	99	0948 05	0948 30	1
2 x 58	IIB	18.2	119	0948 06	0948 31	1

For 2 G11 compact fluorescent bulbs

- Compensated power supply 230 V (+ 6%, - 10%) - 50 Hz (power factor ≥ 0.9). Starter ignition.
- Similar lighting to Ø 26 mm, 18, 36 W fluorescent tubes
- Intensive lighting : use external reflectors (see accessories)

Tube (W) (supplied)	Group	Weight (kg)	Volume (dm ³)	Cat. No. 230 V 3/4 NPT	Pack
1 x 18	IIC	6.8	25.5	0948 52	1
1 x 36	IIC	9.8	58	0948 54	1
2 x 18	IIC	6.8	25.5	0948 57	1
2 x 36	IIC	10.7	58	0948 59	1

Accessories

Reflectors

White painted galvanized steel fitted separately from the guard

		Cat. No.	Pack
0948 52/57		0948 68	1
0948 00/04	0948 26/29/54/59	0948 69	1
0948 01/05	0948 27/30	0948 70	1
0948 02/06	0948 28/31	0948 71	1

Protective guards

Zinc-plated steel (20 microns), reflector fitted separately

		Cat. No.	Pack
0948 52/57		0948 72	1
0948 00/04	0948 26/29/54/59	0948 73	1
0948 01/05	0948 27/30	0948 74	1
0948 02/06	0948 28/31	0948 75	1

Fixings - set of 2 brackets

		Cat. No.	Pack
Quick fixing, zinc-plated steel		0948 97	1
316 stainless steel version		0948 89	1
Fixing on flat surface, zinc-plated steel		0948 98	1
316 stainless steel version		0948 90	1
With zinc-plated brackets for fixing on			
- 1" 1/2 (Ø 49 mm) or 1" 1/4 (Ø 42 mm) tube		0948 99	1
- 316 stainless steel version		0948 92	1
- 2" (Ø 60 mm) tube		0948 91	1
- 316 stainless steel version		0948 93	1
Fall prevention fixing kit (1.20 m stainless steel chain)		0938 19	1

For special options, please consult us:

- 254 V + 6% - 10%
- Version with three Ø 26 tubes
- Tubes designed for cold applications, for increasing the flux at low temperature
- Hinged fixing with chain
- Three entry version

Spare parts (see page 290)

Cable gland armoured cable (see page 252-262)



TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification:

- According to CENELEC :
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18
 - EC 0081 II 2 G for gas

Explosion classification according to table below for gas :

Cat. Nos.	Group
0948 54 (with or without reflector)	EExd IIC-T6
0948 00/04/26/29/52/57/59 (without reflector)	EExd IIC-T6
0948 00/04/26/29/52/57/59 (with reflector)	EExd IIC-T5
0948 02/06/28/31 (with or without reflector)	EExd IIB -T6
0948 01/05/27/30 (with or without reflector)	EExd IIB + H2 -T6

- EC 0081 II 2 D T = + 85°C for dust

- According to IEC :

Explosion classification according to table below for gas :

Cat. Nos.	Group
0948 54 (with or without reflector)	Exd IIC-T6
0948 00/04/26/29/52/57/59 (without reflector)	Exd IIC-T6
0948 00/04/26/29/52/57/59 (with reflector)	Exd IIC-T5
0948 02/06/28/31 (with or without reflector)	EExd IIB -T6
0948 01/05/27/30 (with or without reflector)	EExd IIB + H2 -T6

- Conforming to standards IEC 60079-0/1
- DIPA 21 TA = + 85°C for dust

Approvals :

- Approved type FLD
- CENELEC LCIE 97 ATEX 6012
- IEC LCIE Ex 03.012
- **CE** declaration of conformity No. 50203
- Conforming to standards EN 60 598-1 and IEC 60 598-1 for luminaires
- Conforming to standards EN 50 281-1-1 and IEC 61241-1-1 "combustible dust"
- Conforming to standards EN 55 015 and EN 61 547 concerning electromagnetic compatibility (EMC)

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Impact resistance IK 08 according to EN 50102

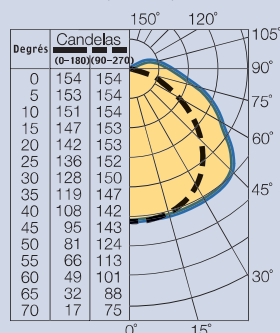
Operating temperature :

- 20°C to + 55°C

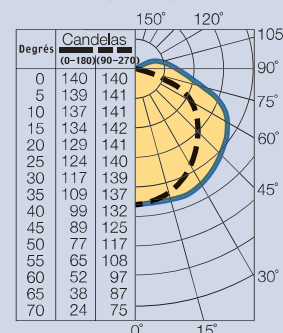
Anticorrosion treatment and climate protection : see page G50

Other temperatures : please consult us

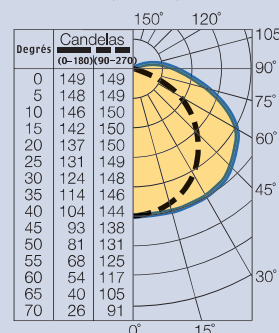
2 x 18 W (094857)
Efficiency 56,2 %
NFC 71-121 : 0,52 G + 0,04 T



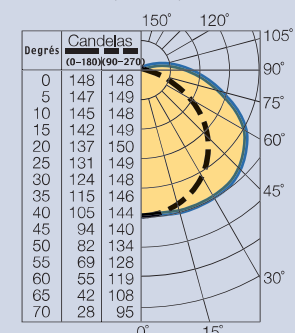
2 x 36 W (094859)
Efficiency 53,6 %
NFC 71-121 : 0,50 G + 0,04 T



2 x 36 W (094805/30)
Efficiency 61,5 %
NFC 71-121 : 0,57 G + 0,04 T



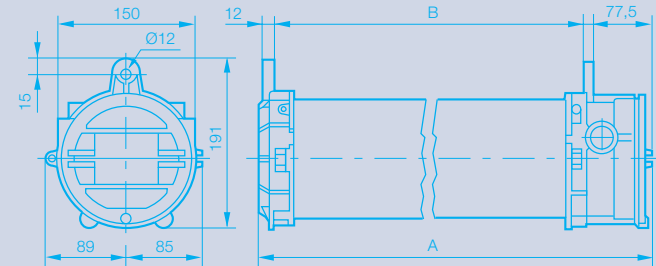
2 x 58 W (094806/31)
Efficiency 61,3 %
NFC 71-121 : 0,57 G + 0,04 T



Zone 1 & 2 - 21 & 22	ATEX	CEI	CE	I/2 G/D	IK 08
EEx d IIB or IIB + H2 or IIC		T6 or T5		T = 85°C	IP 68

Dimensions (mm) :

Cat. Nos.	A	B
0948 52/57	430	335
0948 00/04/26/29/54/59	745	650
0948 01/05/27/30	1365	1260
0948 02/06/28/31	1655	1560

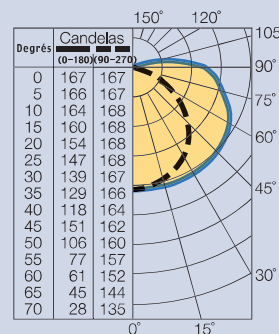


Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120

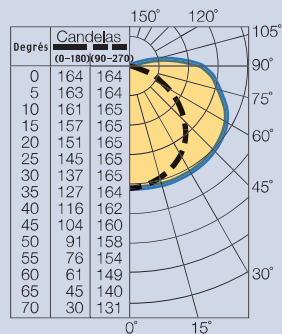
Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

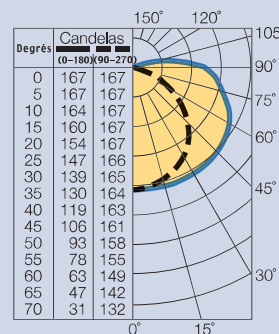
1 x 18 W (094800/26)
Efficiency 75,3 %
NFC 71-121/0 : 0,69 H + 0,06 T



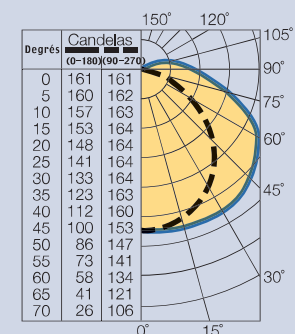
1 x 36 W (094801/27)
Efficiency 74,3 %
NFC 71-121 : 0,69 H + 0,05 T



1 x 58 W (094802/28)
Efficiency 74,5 %
NFC 71-121 : 0,70 H + 0,05 T



2 x 18 W (094804/29)
Efficiency 68,1 %
NFC 71-121 : 0,63 G + 0,05 T



Data sheet available on request

Cylindrical fluorescent luminaires 220/230 V - 60 Hz for armoured and non-armoured cable **flameproof**



0948 11 FLD 2 x 58W



0948 10 FLD 2 x 36W



0948 09 FLD 2 x 18W

0948 09 with reflector 948 69
and protective guard 0948 73

18, 36 and 58 W cylindrical fluorescent luminaires with ferromagnetic ballast

- Ferromagnetic ballast
- Ø 26 or 38 mm twin tubes, G13 lampholders
- Borosilicate glass sealed tube
- Zamak end caps and cover anticorrosion treated and painted grey
- Threaded access cover with O ring seal
- High temperature internal wiring
- Connection via 2 x 3 x 2.5 mm² terminals
- Two M20 threaded cable entries
- Supplied with an M20 blanking plug (cable gland not supplied)
- External earth via bracket : 4 mm²
- Operates in any position
- Fixed using 2 integrated lugs (see accessories opposite)

For Ø 26 or 38 mm G13 fluorescent tubes

- Compensated power supply 220 V +6% - 10% , 60 Hz (power factor ≥ 0.90). Starter ignition

Tube (W) (not supplied)	Group	Weight (Kg)	Volume (dm ³)	Cat. No. 220 V - 60 Hz	Pack
2 x 18	IIC	9.7	58	0948 09	1
2 x 36	IIB	15.3	99	0948 10	1
2 x 58	IIB	18.2	119	0948 11	1

- Compensated power supply 230 V +6% - 10% , 60 Hz (power factor ≥ 0.9). Starter ignition

Tube (W) (not supplied)	Group	Weight (Kg)	Volume (dm ³)	Cat. No. 230 V - 60 Hz	Pack
2 x 18	IIC	9.7	58	0948 18	1
2 x 36	IIB	15.3	99	0948 19	1
2 x 58	IIB	18.2	119	0948 20	1

Accessories

Reflectors

White painted galvanized steel,
guard fitted separately

	Cat. No.	Pack
0948 09/18	0948 69	1
0948 10/19	0948 70	1
0948 11/20	0948 71	1



Protective guards

Zinc-plated steel (20 microns),
reflector fitted separately

	Cat. No.	Pack
0948 09/18	0948 73	1
0948 10/19	0948 74	1
0948 11/20	0948 75	1



Fixings - set of 2 brackets

	Cat. No.	Pack
Quick fixing, zinc-plated steel	0948 97	1
316 stainless steel version	0948 89	1
Fixing on flat surface, zinc-plated steel	0948 98	1
316 stainless steel version	0948 90	1
With zinc-plated brackets for fixing on		
- 1" 1/4 (Ø 42 mm) or 1" 1/2 (Ø 49 mm) tube	0948 99	1
- 316 stainless steel version	0948 92	1
- 2" (Ø 60 mm) tube	0948 91	1
- 316 stainless steel version	0948 93	1
Fall prevention fixing kit (1.20 m stainless steel chain)	0938 19	1



For special options, please consult us:

- 254 V + 6% - 10%
- Version with three Ø 26 tubes
- Tubes designed for cold applications, for increasing the flux at low temperature
- Hinged fixing with chain
- Three entry version

Spare parts (see page 290)
Cable gland for armoured cable (see page 252-262)



TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification:

- According to CENELEC :
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18
 - EC 0081 II 2 G for gas

Explosion classification according to table below for gas :

Cat. Nos.	Group
0948 09/18 (without reflector)	EExd IIC-T6
0948 09/18 (with reflector)	EExd IIC-T5
0948 11/20 (with or without reflector)	EExd IIB -T6
0948 10/19/ (with or without reflector)	EExd IIB + H2 -T6

- EC 0081 II 2 D T = + 85°C for dust

- According to IEC :

Explosion classification according to table below for gas :

Cat. Nos.	Group
0948 09/18 (without reflector)	Exd IIC-T6
0948 09/18 (with reflector)	Exd IIC-T5
0948 11/20 (with or without reflector)	EExd IIB -T6
0948 10/19/ (with or without reflector)	EExd IIB + H2 -T6

- Conforming to standards IEC 60079-0/1
- DIPA 21 TA = + 85°C for dust

Approvals :

- Approved type FLD
- CENELEC LCIE 97 ATEX 6012
- IEC LCIE Ex 03.012
- declaration of conformity No. 50203
- Conforming to standards EN 60 598-1 and IEC 60 598-1 for luminaires
- Conforming to standards EN 50 281-1-1 and IEC 61241-1-1
"combustible dust"
- Conforming to standards EN 55 015 and EN 61 547 concerning electromagnetic compatibility (EMC)

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Mechanical resistance IK 08 according to EN 50102

Operating temperature :

- 20° to + 55 °C

Anticorrosion treatment and climate protection : see page G50

Other temperatures : please consult us

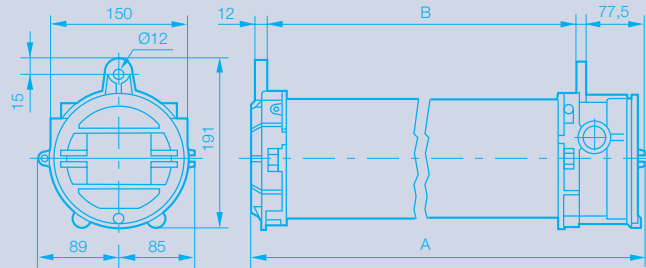
Product features/customer benefits

- Sliding gear tray and plug-in terminal blocks : **easy maintenance**
- Guard fitted separately from the reflector : **flexibility of installation**
- Threaded access cover with O ring seal : **improved ingress protection**

Zone 1 & 2 - 21 & 22	ATEX	CEI	CE	I/2 G/D	IK 08
EEx d IIB or IIB + H2 or IIC		T6 or T5		T = 85°C	IP 68

Dimensions (mm) :

Cat. Nos.	A	B
0948 09/18	745	650
0948 10/19	1365	1260
0948 11/20	1655	1560

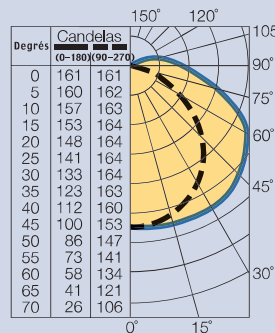


Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120

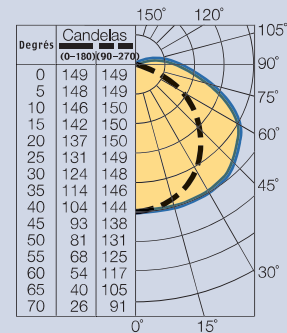
Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

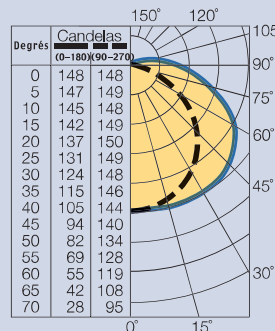
2 x 18 W
Efficiency 68,1 %
NFC 71-121: 0,63 G + 0,05 T



2 x 36 W
Efficiency 61,5 %
NFC 71-121 : 0,57 G + 0,04 T



2 x 58 W
Efficiency 61,3 %
NFC 71-121: 0,57 G + 0,04 T



Cylindrical fluorescent luminaires 110/127 V - 220/240 V - 50/60 Hz for armoured and non-armoured cable flameproof



0948 13 FLD 2 x 58W



0948 08 FLD 2 x 36W



0948 07 FLD 2 x 18W



0948 07 with reflector 0948 69 and protective guard 0948 73

18, 36 and 58 W fluorescent luminaires with high frequency electronic ballast

- Ø 26 or 38 mm tubes, G13 lampholders
- Borosilicate glass sealed tube
- Zamak end caps and cover anticorrosion treated and painted grey
- Threaded access cover with O ring seal
- Connection via 2 x 3 x 2.5 mm² terminals
- High temperature internal wiring
- Two M20 threaded cable entries
- Supplied with an M20 blanking plug (cable gland not supplied)
- External earth via bracket : 4 mm²
- Operates in any position
- Fixed using 2 integrated lugs

Instant start Ø 26 or 38 mm G13 tubes

- Power supply 110/127 V, ± 10% - 50/60 Hz, 110/127 V DC
- Electronic ballast (power factor ≥ 0.95)

Tubes (W) (not supplied)	Group	Weight (Kg)	Volume (dm ³)	Cat. No. 110/127 V	Pack
2 x 18	IIC	9.7	58	0918 07	1
2 x 36	IIB	15.3	99	0918 08	1
1 x 58	IIB	17	119	0918 12	1
2 x 58	IIB	18.2	119	0918 13	1

- Instant start 220/240 V, ± 10% - 50/60 Hz
- Electronic ballast (power factor ≥ 0.95)

Tubes (W) (not supplied)	Group	Weight (Kg)	Volume (dm ³)	Cat. No. 220/240 V	Pack
2 x 18	IIC	9.7	58	0948 07	1
2 x 36	IIB	14.9	99	0948 08	1
1 x 58	IIB	17	119	0948 12	1
2 x 58	IIB	18.2	119	0948 13	1

Accessories

Reflectors

White painted galvanized steel, guard fitted separately

	Cat. No.	Pack
0948 07 and 0918 07	0948 69	1
0948 08 and 0918 08	0948 70	1
0948 13 and 0918 13	0948 71	1
0948 12 and 0918 12		

Protective guards

Zinc-plated steel (20 microns), reflector fitted separately

	Cat. No.	Pack
0948 07 and 0918 07	0948 73	1
0948 08 and 0918 08	0948 74	1
0948 13 and 0918 13	0948 75	1
0948 12 and 0918 12		

Fixings - set of 2 brackets

	Cat. No.	Pack
Quick one-hand fixing, zinc-plated steel	0948 97	1
316 stainless steel version	0948 89	1
Fixing on flat surface, zinc-plated steel	0948 98	1
316 stainless steel version	0948 90	1
With zinc-plated brackets for fixing on		
- 1" 1/2 (Ø 49 mm) or 1" 1/4 (Ø 42 mm) tube	0948 99	1
- 316 stainless steel version	0948 92	1
- 2" (Ø 60 mm) tube	0948 91	1
- 316 stainless steel version	0948 93	1
Fall prevention fixing kit (1.20 m stainless steel chain)	0938 19	1

For special options, please consult us:

- Version with three Ø 26 tubes
- Tubes designed for cold applications, for increasing the out put at low temperature
- Hinged fixing with chain
- 3/4 NPT cable entries
- Three entries version

Spare parts (see page 290)

Cable gland for armoured cable (see page 252-262)



TECHNICAL DATA

Zones:

- 1 and 2 and 21-22

Classification:

- According to CENELEC :
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18
 - EC 0081 II 2 G for gas

Explosion classification according to table below for glass :

Cat. Nos.	Group
0918 07 and 0948 07 (without reflector)	EExd IIC-T6
0918 07 and 0948 07 (with reflector)	EExd IIC-T5
0918 08/13 and 0948 08/13 (with or without reflector)	EExd IIB-T6

- EC 0081 II 2 D T = + 85°C for dust

- According to IEC :

Explosion classification according to table below for gas :

Cat. Nos.	Group
0918 07 and 0948 07 (without reflector)	Exd IIC-T6
0918 07 and 0948 07 (with reflector)	Exd IIC-T5
0918 08/13 and 0948 08/13 (with or without reflector)	Exd IIB-T6

- Conforming to standards IEC 60079-0/1
- DIPA 21 TA = + 85°C for dust

Approvals :

- Approved type FLd
- CENELEC LCIE 97 ATEX 6012
- IEC LCIE Ex 03.012
- **CE** declaration of conformity No. 50203
- Conforming to standards EN 60 598-1 and IEC 60 598-1 for luminaires
- Conforming to standards EN 50 281-1-1 and IEC 61241-1-1 "combustible dust"
- Conforming to standards EN 55 015 and EN 61 547 concerning electromagnetic compatibility (EMC)

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Mechanical resistance IK 08 according to EN 50102

Operating temperature :

- 20° to + 55 °C

Anticorrosion treatment and climate protection : see page G50

Other temperatures : please consult us

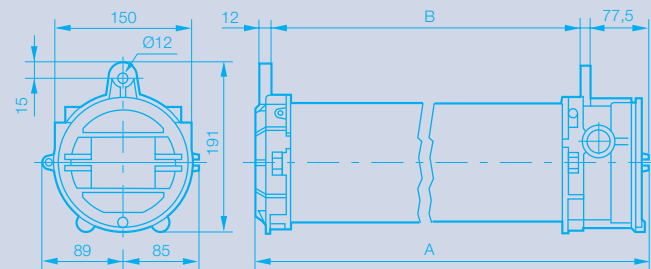
Product features/customer benefits

- Sliding gear tray and plug-in terminal blocks : **easy maintenance**
- Guard fitted separately from the reflector : **flexibility of installation**
- Threaded access cover with O ring seal : **improved ingress protection**

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	I12 G/D
EEx d IIB or IIC	T6 or T5	T = 85°C	IP 68	IK 08

Dimensions (mm) :

Cat. Nos.	A	B
0918 07/ 0948 07	745	650
0918 08/0948 08	1365	1260
0918 13/0948 13	1655	1560

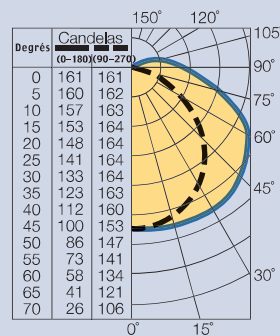


Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120

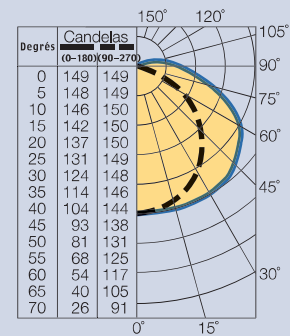
Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

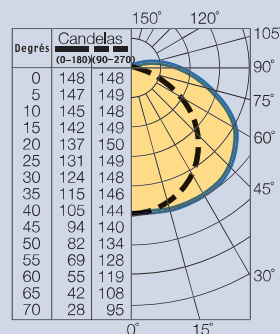
2 x 18 W
Efficiency 68,1 %
NFC 71-121: 0,63 G + 0,05 T



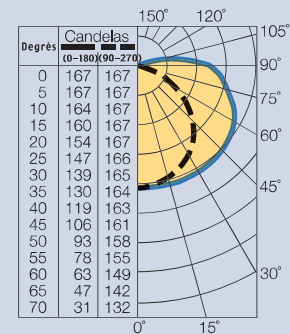
2 x 36 W
Efficiency 61,5 %
NFC 71-121 : 0,57 G + 0,04 T



2 x 58 W
Efficiency 61,3 %
NFC 71-121: 0,57 G + 0,04 T



1 x 58 W
Efficiency 74,5 %
NFC 71-121 : 0,70 H + 0,05 T



Cylindrical fluorescent luminaires normal and emergency 110/127 V - 220/240 V - 50/60 Hz for armoured and non-armoured cable **flameproof**



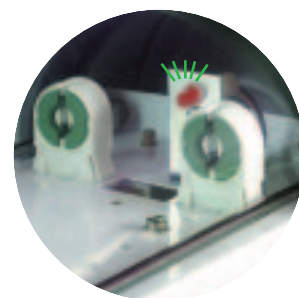
0948 17 FLD 2 x 58W



0948 16 FLD 2 x 36W



0948 15 FLD 2 x 18W



Charge indicating light

18, 36 and 58 W fluorescent luminaires

- Ø 26 or 38 mm twin tubes, G13 lampholders
- Borosilicate glass sealed tube
- Zamak end caps and cover, anticorrosion treated and painted grey
- Threaded access cover with O ring seal
- Power supply via high frequency ballast 110/127 V~ (+ 10%, - 10%)
- Power supply via electronic ballast 220/240 V~ (+ 10%, - 10%)
- Instant start - Power factor ≥ 0.95
- Battery voltage : 18 W : 6 V 4 A h - 36 W/58W : 8.4 V 4 A h
- Common power supply circuit to provide both normal lighting and emergency lighting
- Operation : mains power switched on: 2 tubes lit
mains power switched off: 1 tube lit (battery back up)
- Signalling LED :
 - on when the installation is operating normally
 - off if there is a mains power supply failure or a battery fault
- Battery-back up tube identified with green mark
- Battery pack easily interchangeable on site, fixed by screws and equipped with a fast connector and a switch which operates when cover is opened
- Ballast and converter fixed by screws
- High temperature internal wiring
- Connection via 2 x 4 x 2.5 mm² terminals
- External earth via bracket: 4 mm²
- Two M20 threaded cable entries
- Supplied with an M20 blanking plug (cable gland not supplied)
- Operates in any position
- Fixed using 2 integrated lugs

For normal and emergency lighting G13 tubes

Tube (W)	Group	1 tube standby time	Light output	Weight (Kg)	Volume (dm ³)	Cat. No. 110/127V	Pack
2 x 18	IIC	3 h	29 %	9.7	58	0918 15	1
2 x 36	IIB	3 h	16 %	14.9	99	0918 16	1
2 x 58	IIB	3 h	11 %	18.2	119	0918 17	1

Tube (W)	Group	1 tube standby time	Light output	Weight (Kg)	Volume (dm ³)	Cat. No. 220/240V	Pack
2 x 18	IIC	3 h	29 %	9.7	58	0948 15	1
2 x 36	IIB	3 h	16 %	14.9	99	0948 16	1
2 x 58	IIB	3 h	11 %	18.2	119	0948 17	1

(i) not supplied

Accessories

Reflectors

White painted galvanized steel, guard fitted separately

	Cat. No.	Pack
0918 15 / 0948 15	0948 69	1
0918 16 / 0948 16	0948 70	1
0918 17 / 0948 17	0948 71	1

Protective guards

Zinc-plated steel (20 microns) fitted separately from the reflector

	Cat. No.	Pack
0918 15 / 0948 15	0948 73	1
0918 16 / 0948 16	0948 74	1
0918 17 / 0948 17	0948 75	1

Fixings - set of 2 brackets

Quick one-hand fixing, zinc-plated steel	0948 97	1
316 stainless steel version	0948 89	1
Fixing on flat surface, zinc-plated steel	0948 98	1
316 stainless steel version	0948 90	1
With zinc-plated brackets for fixing on		
- 1" 1/2 (Ø 49 mm) or 1" 1/4 (Ø 42 mm) tube	0948 99	1
- 316 stainless steel version	0948 92	1
- 2" (Ø 60 mm) tube	0948 91	1
- 316 stainless steel version	0948 93	1
Fall prevention fixing kit (1.20 m stainless steel chain)	0938 19	1

For special options, please consult us:

- 1.5 hour emergency duration
 - Emergency luminaire only (non maintained)
 - 3 tube version
 - Tubes designed for cold applications, for increasing the out put at low temperature
 - Hinged fixing with chain
 - 3/4 NPT cable entries
 - Three entry version
- Spare parts (see page 290)
Cable gland for armoured cable (see page 252-262)



TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- According to CENELEC :
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18
 - EC 0081 II 2 G for gas

Explosion classification according to table below :

Cat. Nos.	Group
0948 15 and 0918 15 (without reflector)	EExd IIC-T6
0948 15 and 0918 15 (with reflector)	EExd IIC-T5
0948 16/17 and 0918 16/17 (with or without reflector)	EExd IIB-T6

- EC 0081 II 2 D T = + 85°C for dust

- According to IEC :

Explosion classification according to table below for gas :

Cat. Nos.	Group
0948 15 and 0918 15 (without reflector)	Exd IIC-T6
0948 15 and 0918 15 (with reflector)	Exd IIC-T5
0948 16/17 and 0918 16/17 (with or without reflector)	Exd IIB-T6

- Conforming to standards IEC 60079-0/1
- DIPA 21 TA = + 85°C for dust

Approvals :

- Approved type FLd
- CENELEC LCIE 97 ATEX 6012
- IEC LCIE Ex 03.012
- **C** declaration of conformity No. 50203
- Conforming to standards EN 60 598-1 and IEC 60 598-1 for luminaires
- Conforming to standards EN 50 281-1-1 and IEC 61241-1-1 "combustible dust"
- Conforming to standards EN 55 015 and EN 61 547 concerning electromagnetic compatibility (EMC)

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Mechanical resistance IK 08 according to EN 50102

Operating temperature :

- 20° to + 55 °C

Anticorrosion treatment and climate protection : see page G50

Other temperatures : please consult us

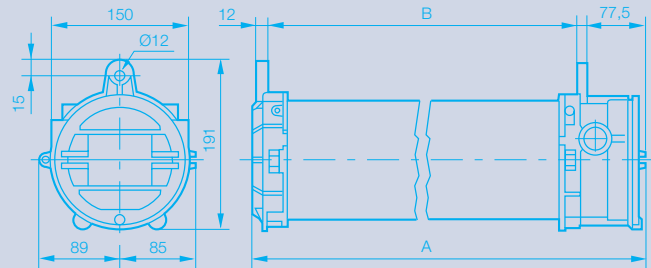
Emergency function :

2 tubes		Mains power on	Mains power off
Fluorescent luminaire on			
Fluorescent luminaire off			

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II2 G/D
EEx d IIB or IIC	T6 or T5	T = 85°C	IP 68	IK 08

Dimensions (mm) :

Cat. Nos.	A	B
0948 15/0918 15	745	650
0948 16/0918 16	1365	1260
0948 17/0918 17	1655	1560

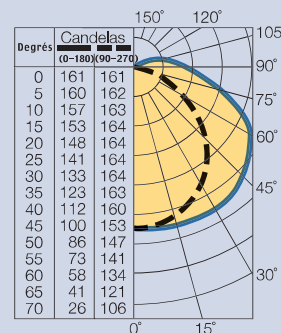


Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120

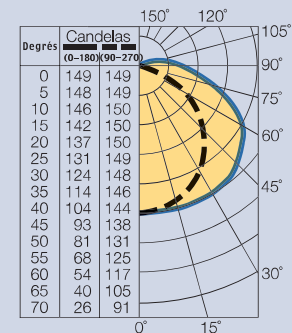
Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

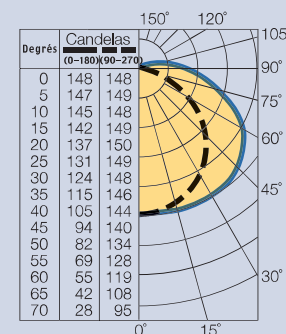
2 x 18 W
Efficiency 68,1 %
NFC 71-121: 0,63 G + 0,05 T



2 x 36 W
Efficiency 61,5 %
NFC 71-121: 0,57 G + 0,04 T



2 x 58 W
Efficiency 61,3 %
NFC 71-121: 0,57 G + 0,04 T



Product features/customer benefits

- Sliding gear tray and plug-in terminal blocks : **easy maintenance**
- Guard fitted separately from the reflector : **flexibility of installation**
- Threaded access cover with O ring seal : **improved ingress protection**

Data sheet available on request

"Self-test" normal and emergency cylindrical fluorescent luminaires 230/240 V - 50/60 Hz for armoured and non-armoured cable flameproof



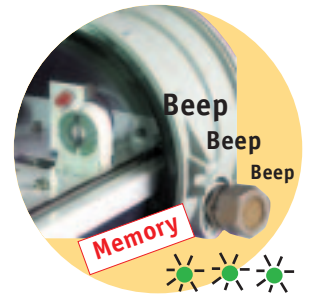
0948 25 FLD 2 x 58W



0948 24 FLD 2 x 36W



0948 23 FLD 2 x 18W



Visible and audible fault signal

18, 36 and 58 W fluorescent luminaires

- Ø 26 or 38 mm tubes, G13 lampholders
- Borosilicate glass sealed tube
- Zamak end caps and cover, anticorrosion treated and painted grey
- Threaded access cover with O ring seal
- Power supply via high frequency ballast 230/240 V~ (± 6%)
- Instant start - Power factor ≥ 0.95
- Battery voltage : 18/36/58 W : 6 V 4 Ah
- Common power supply circuit to provide both normal lighting and emergency lighting
- Operation : mains power switched on: 2 tubes lit
mains power switched off: 1 tube lit (battery back up)
- Automatic tests controlled by microprocessor
 - monthly : discharge for 5 minutes
 - 6-monthly : discharge for 1 hour
 - annual : discharge for 3 hours with indication (upon request) of the number of months remaining before the next test
- Signalling LED and buzzer:
 - on when the installation is operating normally
 - off if there is a mains power supply failure or a battery fault
 - flashing if there is a lamp fault
 - in the event of a fault, the buzzer emits 3 long beeps every 35 minutes until the repair is carried out
- Battery-back up tube identified with green disk
- Battery pack easily interchangeable on site, fixed by screws and equipped with a fast connector and a switch which operates when cover is opened
- Ballast and converter assembly fixed by screws
- High temperature internal wiring
- Connection via 2 x 4 x 2.5 mm² terminals
- External earth via bracket : 4 mm²
- Two M20 threaded cable entries
- Supplied with an M20 blanking plug (cable gland not supplied)
- Operates in any position
- Fixed using 2 integrated lugs


For normal and emergency lighting with automatic tests, G13 tubes

Tube (W) (i)	Group standby time	1 tube 3 h	Light output	Weight (Kg)	Volume (dm ³)	Cat. No. 230/240 V	Pack
2 x 18	IIC	3 h	24 %	9.7	58	0948 23	1
2 x 36	IIB	3 h	16 %	14.9	99	0948 24	1
2 x 58	IIB	3 h	15 %	18.2	119	0948 25	1

Accessories


Reflectors

White painted galvanized steel,
guard fitted separately

	Cat. No.	Pack
	0948 69	1
	0948 70	1
	0948 71	1

Protective guards

Zinc-plated steel (20 microns),
reflector fitted separately

	Cat. No.	Pack
	0948 73	1
	0948 74	1
	0948 75	1

Fixing accessories

	Cat. No.	Pack
Quick fixing, zinc-plated steel	0948 97	1
316 stainless steel version (set of 2 brackets)	0948 89	1
Fixing on flat surface, zinc-plated steel	0948 98	1
316 stainless steel version	0948 90	1
With zinc-plated brackets for fixing on		
- 1" 1/2 (Ø 49 mm) or 1" 1/4 (Ø 42 mm) tube	0948 99	1
- 316 stainless steel version	0948 92	1
- 2" (Ø 60 mm) tube	0948 91	1
- 316 stainless steel version	0948 93	1
Fall prevention fixing kit (1.20 m stainless steel chain)	0938 19	1

For special options, please consult us:

- Standby time 1 hr 30 mins
 - Emergency luminaire only (not permanent)
 - 3 tube version
 - Tubes designed for cold applications, for increasing the flux at low temperature
 - Hinged fixing with chain
 - 3/4 NPT cable entries
 - Three entry version
- Spare parts (see page 290)

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- According to CENELEC :
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18
 - EC 0081 II 2 G for gas

Explosion classification according to table below for gas :

Cat. Nos.	Group
0948 23 (without reflector)	EEx d IIC* -T6
0948 23 (with reflector)	EEx d IIC* -T5
0948 24/25 (with or without reflector)	EEx d IIB ou IIB -T6

- EC 0081 II 2 D T = + 85°C for dust

- According to IEC :

Explosion classification according to table below for gas :

Cat. Nos.	Group
0948 23 (without reflector)	Ex d IIC* -T6
0948 23 (with reflector)	Ex d IIC* -T5
0948 24/25 (with or without reflector)	Ex d IIB -T6

- Conforming to standards IEC 60079-0/1
- DIPA 21 TA = + 85°C for dust
- IIB with external buzzer

Approvals :

- Approved type FLd
- CENELEC LCIE 97 ATEX 6012
- IEC LCIE Ex 03.012
- declaration of conformity No. 50203
- Conforming to standards EN 60 598-1 and IEC 60 598-1 for luminaires
- Conforming to standards EN 50 281-1-1 and IEC 61241-1-1 "combustible dust"
- Conforming to standards EN 55 015 and EN 61 547 concerning electromagnetic compatibility (EMC)

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Mechanical resistance IK 08 according to EN 50102

Operating temperature :

- 20° to + 55 °C

Anticorrosion treatment and climate protection : see page G50

Other temperatures : please consult us

Emergency function :

2 tubes

	Mains power on	Mains power off
Fluorescent luminaire on		
Fluorescent luminaire off		

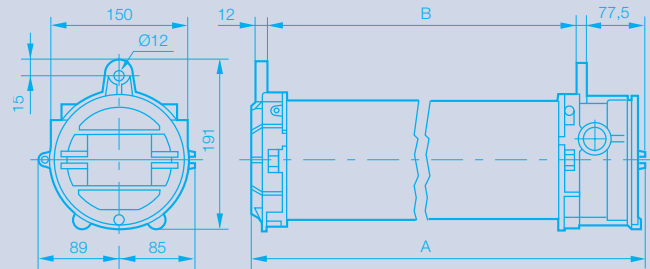
Product features/customer benefits

- Sliding gear tray and plug-in terminal blocks : **easy maintenance**
- Guard fitted separately from the reflector : **flexibility of installation**
- Threaded access cover with O ring sea l : **improved ingress protection**
- Automatic tests with alarm and memory : **easy maintenance**

Zone 1 & 2 - 21 & 22	ATEX	ICE	EC	I12 G/D	IK08
EEx d IIC or IIB	T6 or T5	T = 85°C	IP 68		

Dimensions (mm) :

Cat. Nos.	A	B
0948 23	745	650
0948 24	1365	1260
0948 25	1655	1560

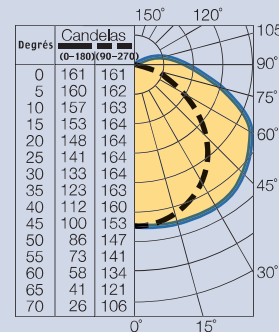


Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120

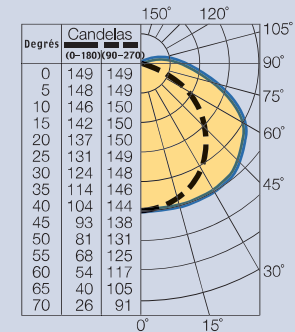
Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

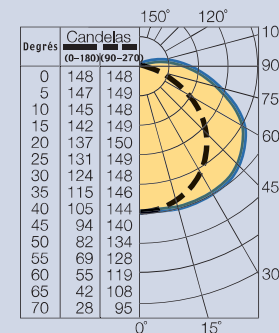
2 x 18 W
Efficiency 68,1 %
NFC 71-121: 0,63 G + 0,05 T



2 x 36 W
Efficiency 61,5 %
NFC 71-121 : 0,57 G + 0,04 T



2 x 58 W
Efficiency 61,3 %
NFC 71-121: 0,57 G + 0,04 T



Which emergency lighting should you use in the industrial areas?

Some industrial workplaces are subject to safety regulations requiring the use of special lighting units for explosive atmospheres (for example French classification BE3 in standard NFC 15-100).

The presence of gas, vapours or dust in certain locations creates an explosion hazard, for example when charging battery packs, filling gas bottles, applying paint or varnish, drying glue or coatings, using resins, stocking explosive products.

Emergency units with automatic built-in test system

The new Directives simplify emergency lighting, as only one type is required in all types of workplace: evacuation lighting (emergency lighting) is permanently on, and antipanic lighting operates in the absence of normal lighting.

- Evacuation lighting must indicate the access routes and emergency exits.
- Antipanic lighting generates a minimum level of lighting to enable evacuation without panic in the event of a mains supply failure. SATI units

can be maintained in the hazardous zone as they have a switch which operates automatically when the cover is unscrewed and opened. This switch cuts off the battery power supply, preventing any electrical sparks.

Some models have a padlockable switch which cuts off the external electricity supply and the remote control circuit.

Addressables emergency units

- For example in France article EC20 requires :
- a daily inspection to ensure that the installation and lighting units are operating correctly
 - a weekly inspection of the lighting of all tubes and mains supply-battery switching
 - a quarterly inspection: operation of all the units for one hour in emergency mode

Centralised control of up to 1000 emergency lighting units from a computer screen is possible using the URAVISION system from URA, a subsidiary of the Legrand group. The system collects in a computer all the necessary data on the status of the units, as well as their precise locations. It reduces the amount of maintenance required by centralizing the management of all

necessary lighting units in offices or industrial premises. Each user must respect their own national codes



8 Watt fluorescent, 415 lumen



Incandescent after 5 minutes : 63 lumens,
After 1 hour : 45 lumens

CONTENTS

- **Equipment for zones 1 & 2 and 21 & 22**

Self-contained lighting units armoured and non-armoured cable

- SATI 220/230 V - 50/60 Hz which can be maintained in the zone 80

Addressable emergency lighting units 82

- Addressable software and system 84

- Addressable units which can be maintained in the zone 86

3 hour unit 88

DC IIB IIC lighting unit 90

- **EGS Group** 120

- **Spare parts** 290

- **Certificates** 292

- **ATX Guide** 302

230 V - 50/60 Hz S.A.T.I. self-contained emergency lighting units automatic build in test system for armoured or non-armoured cable flameproof



0949 58 Fluorescent with switch

Can be controlled remotely
and maintained in the zone



0949 66 Incandescent without switch

Luminaire can run automatic tests and be maintained in the zone

- Power supply : 230 V + 6 - 10% - 50/60 Hz
- Standby time (as in standard): 1 hr for non-permanent emergency lighting
- SATI unit: automatic built-in test system
- Memorisation of tests indicated by diodes
 - automatic lamp check every 7 days
 - automatic lamp and battery check every 70 days
- Can be remotely controlled and checked without switching the mains off with Legrand remote control unit Cat. No. 039 01 or URA 0954 48 and 0954 50 (to be placed outside the zone), protected against connection errors. Manual ignition of all the units (maximum 300) for visual inspection of their operation
- Zamak end caps and cover, anticorrosion treated and painted grey
- Sealed toughened glass tube
- Threaded flamepath
- Threaded access cover with O ring seal
- Operates in any position
- Interchangeable flameproof battery pack
- Fixed using 2 integrated lugs

Space lighting

- 8 W fluorescent units nominal out put 415 lm standby time 1 hr, consisting of :
 - One 8 W fluorescent tube
 - Charge indicator : 4 nos. yellow Led. (life time over 10 years)

Escape route lighting

- Incandescent units nominal flux 63 lm standby time 1 hr, consisting of:
 - Two 3.6 V - 1 A emergency lamps BA9S
 - Charge indicator : 4 yellow Led. (life time over 10 years)

Switched version

- Secured by padlockable handle which cuts off the mains power supply to the unit and the remote control unit
- One 3/4" NPT threaded cable entry
- Connection via four 2.5 mm² terminals

Space lighting	Lumen out put	Standby time	Weight (Kg)	Volume (dm ³)	Cat. No. 230 V	Pack
8 W fluorescent	415 lm	1 hr	10	40.4	0949 58	1
Escape route lighting						
Incandescent	63 lm	1 hr	10	40.4	0949 65	1

Unswitched version

- Two 3/4" NPT threaded cable entries
- Supplied with one 3/4" NPT blanking plug
- Connection to plug-in terminal block via 2 x 5 x 2.5 mm² terminals

Space lighting	Lumen out put	Standby time	Weight (Kg)	Volume (dm ³)	Cat. No. 230V	Pack
8 W fluorescent	415 lm	1 hr	8.1	37.1	0949 59	1
Escape route lighting						
Incandescent	63 lm	1 hr	8.1	37.1	0949 66	1

Accessories

Fixings - set of 2 brackets

	Cat. No.	Pack
Quick one-hand fixing, zinc-plated steel	0948 97	1
316 stainless steel version	0948 89	1
Fixing on flat surface, zinc-plated steel	0948 98	1
316 stainless steel version	0948 90	1
With zinc-plated brackets for fixing on		
- 1" 1/4 (Ø 42 mm) or 1" 1/2 (Ø 49 mm) tube	0948 99	1
- 316 stainless steel version	0948 92	1
- 2" (Ø 60 mm) tube	0948 91	1
- 316 stainless steel version	0948 93	1
8 W fluorescent lamp	0949 90	5
3.6 V - 1 A emergency lamp , BA9S	0949 95	25

Réflexor

White painted galvanized steel, guard fitted separately



0948 66 1

Protective guard

Zinc-plated steel (20 microns), reflector fitted separately



0948 76 1

Fall prevention fixing kit (1.20 m stainless steel chain) **0938 19** 1

For special options, please consult us:

- Polycarbonate protection for glass tube

Spare parts (see page 290)

Signalling label

Zone 1 & 2 - 21 & 22		ATEX	IEC	EC	II2 G/D
EEx d IIC	T6	T = 85°C	IP 68		IK 09

TECHNICAL DATA

Zones : 1 and 2 and 21-22

Classification :

- **According to CENELEC:**
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d II C T6
 - EC 0081 II 2 D T = + 85°C for dust
- **According to IEC :**
 - Ex d II C T6
 - Conforming to IEC standards 60079-0/1
 - DIPA 21 - TA = + 85°C for dust

Approvals :

- Approved type FLd
- CENELEC LCIE 97 ATEX 6012
- IEC LCIE Ex 03.012
- **CE** declaration of conformity No. 50203
- Conforming to standards EN 60.598-1 and IEC 60.598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"
- Conforming to standard NF C 71-801
- Granted the NF AEAS quality mark
- Conforming to standards EN 55015 and EN 61547 concerning electromagnetic compatibility (EMC)

Protection index :

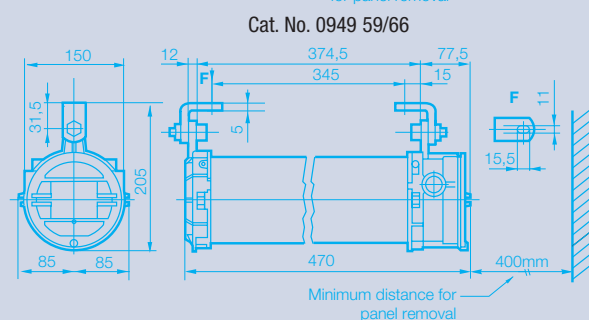
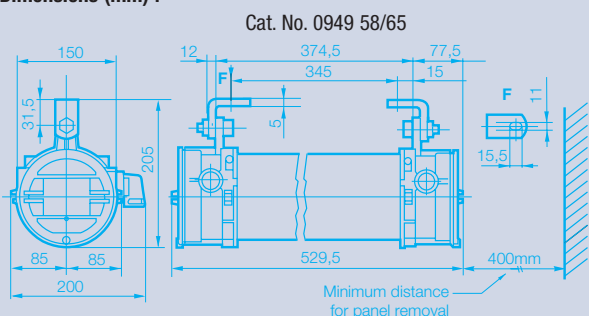
- IP 66/67 according to IEC 60.529 and EN 60.529
- Impact resistance IK 09 according to EN 50102

Anticorrosion treatment and climate protection : see page G50

Operating temperature :

- 20°C to + 55°C, optimum operating range for the batteries - 5 to + 30°C

Dimensions (mm) :



Product features/customer benefits

- Flameproof battery with switch : **easy maintenance in zone**
- Threaded access cover with O ring seal : **improved ingress protection**
- Version with external padlockable switch : **easy maintenance**

Data sheet available on request

2 advantages of automatic built in test system

1- Maintenance in hazardous areas

S.A.T.I. units can be maintained in the hazardous zone as they incorporate a switch which operates automatically when the cover is unscrewed and opened. This switch cuts off the battery power supply, thus preventing any electrical sparks.

Some models have a padlockable switch which cuts off the external electricity supply and the remote control circuit.

2- Self-test

Using a microprocessor and an internal clock, the unit will carry out automatic tests:

- Every 7 days : lamp test for 6 seconds.
- Every 70 days : lamp and battery test for 1 hour.

- Within each quarter, the unit chooses a week to carry out an emergency duration test in addition to the lamp test.



Two solutions in response to the requirement

For example in France, article EC 20 of the Safety Regulations requires owners to carry out regular inspections of the emergency units and installation:

- Daily inspection: correct operation of installation and lighting units
- Weekly inspection: ignition of all lamps and mains supply/battery changeover

1- Adressables lighting units

Centralised control of up to 1000 emergency lighting units from a computer screen is possible using the URAVISION system from URA.

The system collects all the necessary data on the conditions of the units, as well as their precise locations.



Continuous green indicator lamp: unit working.
Continuous yellow indicator lamp: battery fault.
Flashing yellow indicator lamp: faulty lamp.

It reduces the amount of maintenance required by centralizing the management of all necessary lighting units in industrial premises. As well as offices

Method

Each unit automatically performs the periodic tests and indicates its conditions via green or yellow indicators.

All data is centralized and displayed on a computer screen, to make maintenance easier.

The condition of faulty units, and their precise location, can be printed out to control the installation.

of article EC 20 of the Safety Regulations

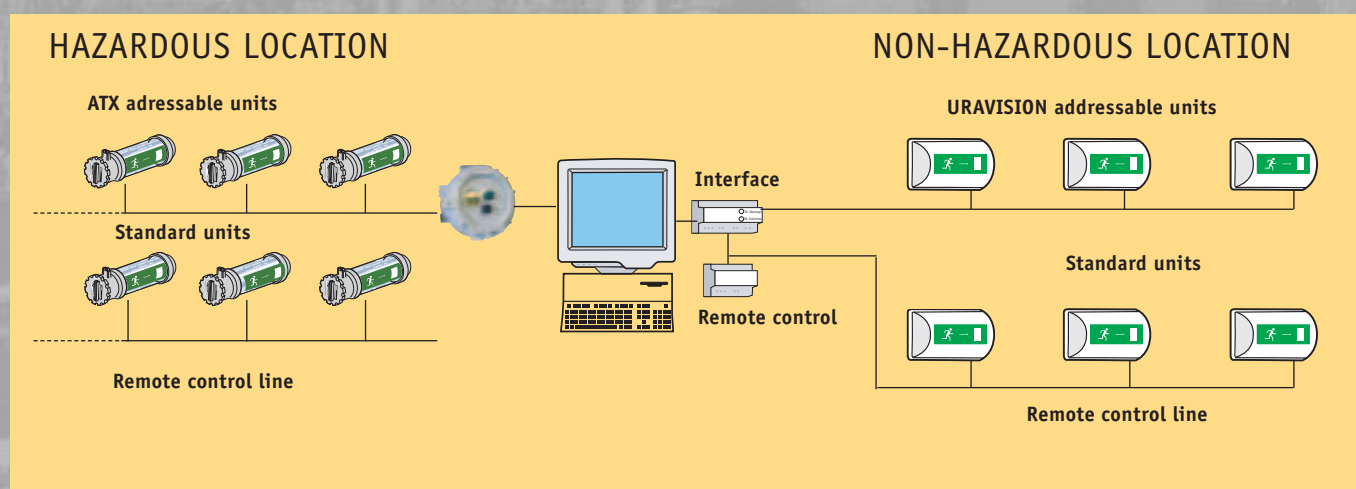
- Quarterly inspection: operation of all the units for one hour
- The civil and criminal responsibility of the owner manager may be involved, as there is an

obligation to maintain installations and keep records in the company's register. Moreover, a stock of replacement lamps for the models in use must be permanently available.

2- Automatic test using ATX and URAVISION units

- Electronic protection against connection errors.
- Test performed with the mains power switched on.
- Display of the unit's conditions via indicator lamps.
- Automatic periodic tests.
- Differentiation of faults via indicator lights on the unit.
- Permanent testing of the lamps and the electronics.
- Batteries can be disconnected.
- Test results displayed on the computer screen.
- Centralized multi-site management.

It is important to remember that both addressable units in safe zones (industrial or commercial units) and ATX addressable flameproof units can be controlled from one single computer.



Installation example

TECHNICAL DATA

Compatible computers

The **ATX/URAVISION** software runs on any type of PC which has the following minimum features:

- **PC:** Pentium with Windows 3.1, minimum 100 Mhz, 16 Mb of RAM.
- **Screen:** minimum 10 inch SVGA, with a minimum definition of 800 X 600, 256 colours.
- **A4 format printer managed by Windows**

If the PC is in continuous operation, it will monitor the system on a permanent basis. It may also be viewed occasionally.

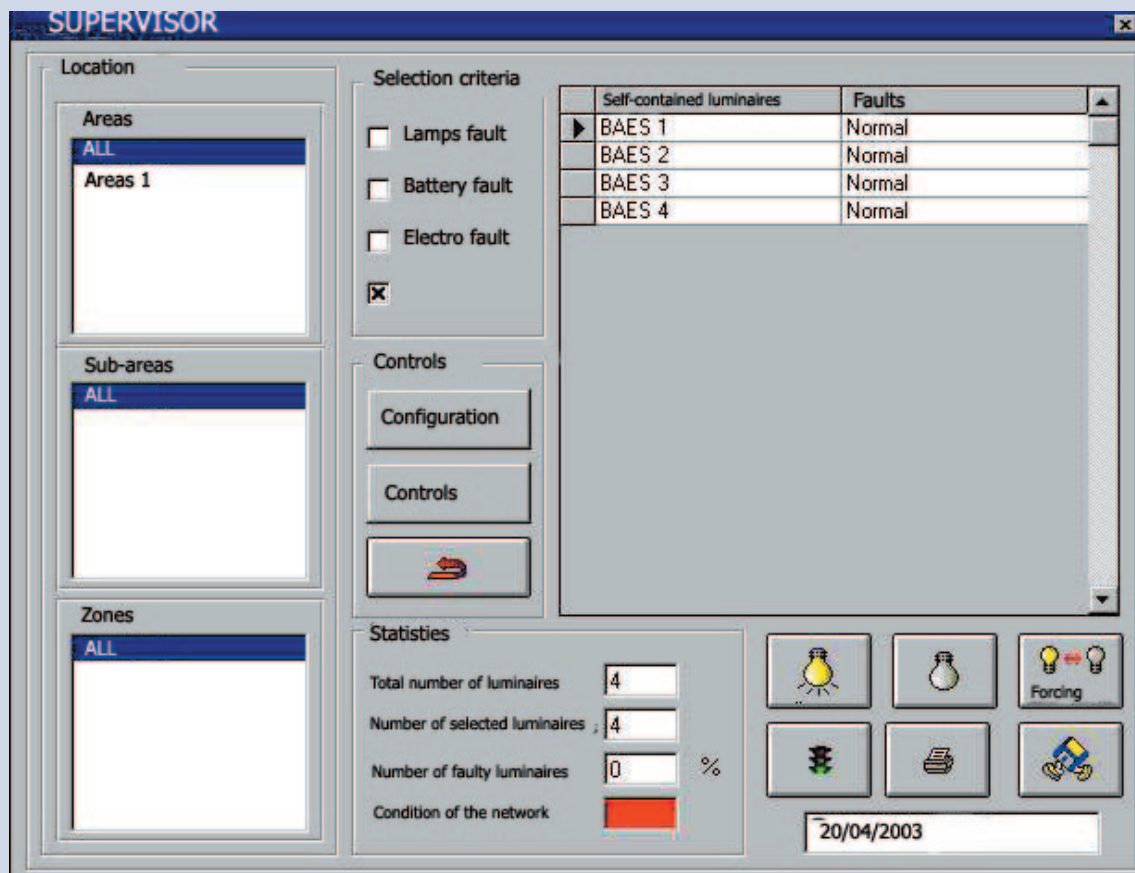
The user-friendliness of the software running under Windows means that users can quickly learn the functions of the system.

Operating mode

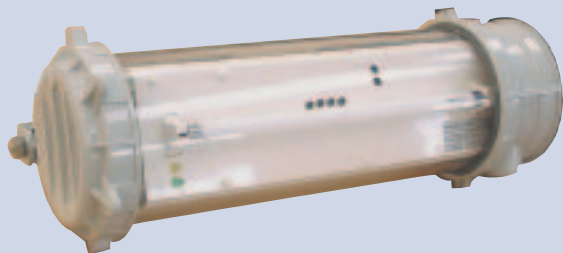
The ATX/URAVISION system accepts all types of network architecture (bus, star, online tree structure).

Easy to set up, the ATX/URAVISION network uses the telecommunications line as the data transmission medium. No additional wiring is required if existing installations are being refurbished.

The ATX/URAVISION system will take mixed installations, i.e. it is compatible with non-addressable units. In a mixed installation, only the ATX/URAVISION units appear on the computer screen. During maintenance operations non-addressable units can be gradually replaced with ATX/URAVISION units, and connected to a BTI interface when the last non-addressable unit is replaced, thus creating a complete installation with centralized control.

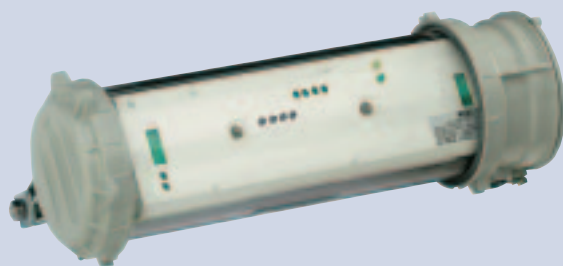


Products installed in hazardous areas



0949 55

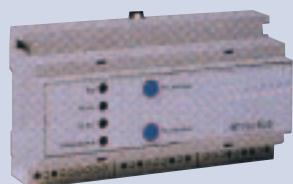
- 8 W fluorescent addressable unit
- Nominal flux 360 lm - 1 hour emergency duration includes :
 - One 8 W fluorescent tube
 - One 12 V - 3 W incandescent indicator lamp E10 lampholder, output ≥ 3 lm



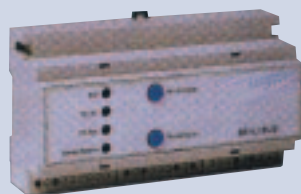
0949 67

- Incandescent addressable unit
- Nominal flux 60 lm: 1 hour emergency duration
 - Two 3.6 V - 1 A emergency lamps BA9S lampholders
 - One 12 V - 3 W indicator lamp flux ≥ 3 lm BA9S lamphoder

Products installed in safe areas (for installation in hazardous locations please consult us)



ATX/URAVISION interface unit "BTI" (equipment sold by URA) between the network of self-contained emergency lighting units and the computer acting as the remote control (compulsory).



ATX/URAVISION booster unit "BR" (equipment sold by URA) for increasing the network capacity.



ATX/URAVISION software

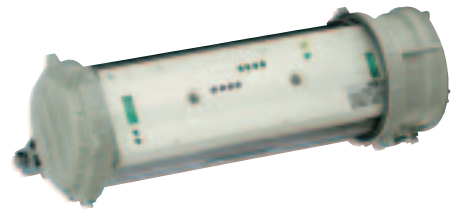
For more information on all the possible configurations with the ATX/URAVISION addressable system, please consult us

"Addressable" self-contained emergency lighting units S.A.T.I. 230 V armoured and non-armoured cable flameproof

Can be maintained in
hazardous location



0949 55 Fluorescent 8W



0949 67 Incandescent

Addressable units can be maintained in the hazardous location

- Power supply : 230 V + 6% – 10% 50/60 Hz
- Emergency duration (standard): 1 hr for non-maintained emergency lighting
- Addressable SATI units :
 - providing the regulatory control of the self contained emergency lighting units and centralising information coming from those units on a computerized management system
 - operating without any special line, with the units and the control unit communicating via mains-borne signalling on the remote control line
- Capacity : control unit only, 200 self contained emergency lighting units
Max. capacity : 1000 self contained emergency lighting units with boosters
- Zamak end caps and cover, anticorrosion treated and painted grey
- Sealed toughened glass tube
- Threaded access cover with O ring seal
- Operate in any position
- Fixed using 2 integrated lugs
- Interchangeable flameproof battery pack

Area lighting

- 8 W fluorescent units
 - nominal output 415 lm - emergency duration 1 hr, consisting of :
 - One 8 W fluorescent tube
 - Charge indicator : 4 nos. yellow Led. (life time over 10 years)
- Two 3/4" NPT threaded cable entries
- Supplied with one 3/4" NPT blanking plugs
- Connection to plug-in terminal block via 2 x 5 x 2.5 mm² terminals

	Weight (Kg)	Volume (dm ³)	Cat. No. 230 V	Pack
8 W fluorescent non-permanent nominal flux 415 lm - 1 hr standby time	8.1	37.1	0949 55	1

Escape route lighting

- Incandescent units
 - nominal output 63 lm: 1 hour emergency duration
 - Two 3.6 V - 1 A emergency lamps BA9S lampholders
 - Charge indicator : 4 nos. yellow Led. (life time over 10 years)
- Two 3/4" NPT threaded cable entries
- Supplied with one 3/4" NPT blanking plug
- Connection to plug-in terminal block via 2 x 5 x 2.5 mm² terminals

	Weight	Volume	Cat. No.	Pack
Non-maintained incandescent lamp nominal output 63 lm emergency duration - 1 hr	8.1	37.1	0949 67	1

Cable glands (see pages 252-263)

Part number in bold : fast moving references

Accessories

Fixings - set of 2 brackets

	Cat. No.	Pack
Quick one-hand fixing, zinc-plated steel	0948 97	1
316 stainless steel version	0948 89	1
Fixing on flat surface, zinc-plated steel	0948 98	1
316 stainless steel version	0948 90	1
With zinc-plated steel brackets for fixing on		
- 1" 1/4 (Ø 42 mm) or 1" 1/2 (Ø 49 mm) tube	0948 99	1
- 316 stainless steel version	0948 92	1
- 2" (Ø 60 mm) tube	0948 91	1
- 316 stainless steel version	0948 93	1
8 W fluorescent bulb	0949 90	5
3.6 V - 1 A emergency lamp BA9S cap	0949 95	25

Reflector

White painted galvanized steel,
guard fitted separately



0948 66 1

Protective guard

Zinc-plated steel (20 microns),
reflector fitted separately



0948 76 1

Fall prevention fixing kit (1.20 m stainless steel chain) 0938 19 1

For special options, please consult us:

- Integrated mains supply switch
- Signalling label

Spare parts (see page 290)

Signalling label (see page 89)

Cable glands for armoured cable (see page 252/262 and 263)

NEW



IMPORTANT

Before carrying out any maintenance work, switch off the mains power supply and the remote control circuit



Zone 1 & 2 - 21 & 22		ATEX	IEC	EC	II2 G/D
EEx d IIC	T6	T = 85°C	IP 68		IK 09

TECHNICAL DATA

Zones :

1 and 2 and 21-22

Classification :

• **According to CENELEC :**

- Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18
- EC 0081 II 2 G for gas EEx d II C T6
- EC 0081 II 2 D T = + 85°C : for dust

• **According to IEC :**

- Conforming to IEC standards 60079-0/1 Ex d II C T6
- DIPA 21 - TA = + 85°C for dust

Approvals :

- CENELEC LCIE 97 ATEX 6012
- IEC LCIE Ex.03.012
- **CE** declaration of conformity No. 50203
- Conforming to standards EN 60.598-1 and IEC 60.598-1 for luminaires
- Conforming to standards IEC 61241-1-1 and EN 50281-1-1 "combustible dust"
- Conforming to standard NF C 71-801
- Granted the NF AEAS quality mark
- Conforming to standards 55015 and EN 61547 concerning electromagnetic compatibility (EMC)

Protection index :

- IP 66 and IP 67 according to IEC 60529 and EN 60529
- Mechanical resistance IK 09 according to EN 50102

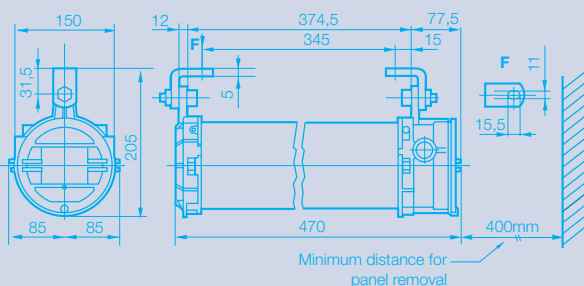
Anticorrosion treatment and climate protection : see page G50

Operating temperature :

- 20°C to + 55°C , optimum operating range for batteries - 5°C to + 30°C

Dimensions (mm) :

Cat. No. 0949 55/67



Product features/customer benefits

- Flameproof battery with switch : **easy maintenance in zone**
- Threaded access cover with O ring seal : **improved ingress protection**
- Addressable products : **easy network maintenance**
- Centralized, real-time data : **safe operation**

Data sheet available on request

.....
Compression and barrier gland EEx "e" and EEx "d"

With the new range of EEx "e" and EEx "d" cable glands for armoured cables:

- No problems water ingress.
- No mechanical stress on the external cable sheath.
- No risk of losing weatherproof seal.
- No risk of assembly error.
- Fast and easy inspection.



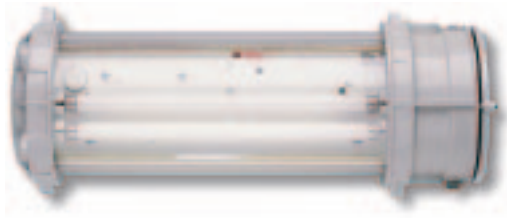
ATX "Safety Plus"

Introducing ATX "Safety Plus" with the new range of cable glands :

- Flexibility on site.
- Adapted to any type of armoured cable (steel tape, lead sheath, braid, wire).
- No gripping problems even with gloves (see page 252 and 254).



Self contained fluorescent units for "3 hours" emergency lighting armoured and non-armoured cable flameproof



0949 62 2x8W fluorescent

3 hour maintained, non maintained and sustained units

- Not approved to French standard NF 71801
- **This product must not be opened in hazardous areas**
The electrical connection must therefore be made via a 16 A power socket for ease of changing lamps and to facilitate cyclical battery testing operations.
- Sealed toughened glass tube
- Zamak end cap and cover, anticorrosion treated and painted grey
- Threaded access cover with O ring seal
- Operates in any position
- Connection to terminal block capacity 2.5 mm²
- External earth via bracket: 4 mm²
- Fixed using 2 brackets (supplied)
- Two M20 threaded cable entries
- Supplied with one M20 blanking plug (cable gland not supplied)

Catalogue numbers

	Nbre of batteries	Cat. No. 110 V	Cat. No. 127 V	Cat. No. 230/240V	Pack
1 x 8 W fluorescent - non maintained 3 hours emergency duration : 230 lumens - 50/60 Hz	4	0919 56	0919 57	0949 56	1
1 x 8 W fluorescent - maintained 3 hours emergency duration : 180 lumens 50 Hz(230/240V) ; 50/60Hz(110-127V)	3	0919 61	0919 60	0949 61	1
2 x 8 W fluo sustained 3 hours emergency duration : 230 lumens 50Hz	4			0949 62	1

Weight : 7.8 kg Volume : 36 dm³

Accessories

External reflector

White painted galvanized steel, guard fitted separately Cat. No. 0948 68 Pack 1

Protective guard

Zinc-plated steel (20 microns), reflector fitted separately 0948 72 1

Fixings - set of 2 brackets


Quick fixing with one hand, zinc-plated steel  0948 97 1

Quick fixing with one hand, 316 stainless steel 0948 89 1

Fixing unit to flat surface, zinc-plated steel  **0948 98** 1

316 stainless steel version 0948 90 1

With zinc-plated steel brackets for fixing

- on 1" 1/4 (Ø 42 mm) or  0948 99 1

1" 1/2 (Ø 49 mm) tube 0948 91 1

- on 2" (Ø 60 mm) tube 0948 91 1

Part number in bold : fast moving references

Zone 1 & 2 - 21 & 22		ATEX	IEC	EC	II2 G/D
EEx d IIC	T6	T = 85°C	IP 68		IK 09

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18
 - EC 0081 Ex II 2 G for gas EEx II c - T6
 - EC 0081 Ex II 2 D T = + 85°C for dust

- According to IEC :
 - Conforming to standards IEC 600 -0/1/7 Ex II C - T6
 - DIPA 21 TA = + 85°C for dust

Approvals :

- Approved type FLd
- CENELEC LCIE 97 ATEX 6012
- IEC LCIE Ex 03.012
- **CE** declaration of conformity No. 50203
- Conforming to standards IEC 60598-1 for luminaires
- Conforming to standard EN 50281-1-1 "combustible dust"
- Conforming to standard 55015 and EN 61547 concerning electromagnetic compatibility (EMC)
 - 55015 - 61547

Protection index :

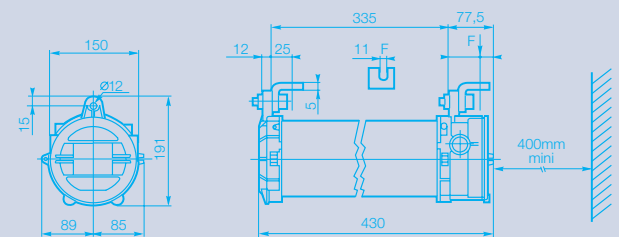
- IP 66 and IP 67 according to EN 60529 and IEC 60529
- Mechanical resistance IK 09 according to EN 50102

Anticorrosion treatment and climate protection : see page G50

Operating temperature : - 20°C to + 40 °C

Dimensions (mm) :

Réf. 949 56/61/62



	0949 56	0949 61	0949 62
Mains power switched on		 or depending to the position of the switch	
Mains power switched off			
Connection	2P + T	3P + T	3P + T

Non-maintained emergency lighting :

A luminaire where the lamp operates from an emergency power source should the mains supply fail.

Maintained emergency lighting :

A luminaire where the lamp is supplied by mains electricity under normal conditions and from an emergency power source should the mains supply fail

Sustained emergency lighting :

A luminaire contained two lamps one of which is energised from the emergency supply and the remainder from the normal supply.

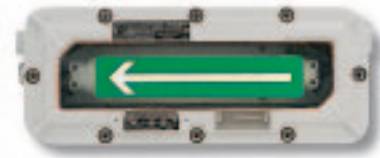
Data sheet available on request



0949 06



0949 05 (on tubular luminaire 0947 16)



0949 04 (on rectangular luminaire 0947 48)

Self-adhesive labels for emergency lighting units

- Green background
- Plastic coated

French

	Length. (mm)	Width. (mm)	Cat. No.	Pack.
	237	53	0949 04	10
	237	53	0949 05	10
	237	109	0949 06	10
	175 + 57	57	0949 07	10
	237	109	0949 08	5
	237	109	0949 09	5
	237	109	0949 10	5

Conforming to Directive CEE 77-576

	Length. (mm)	Width. (mm)	Cat. No.	Pack.
	237	109	0949 11	5
	237	109	0949 12	5

English

	Length. (mm)	Width. (mm)	Cat. No.	Pack.
	230	45	0949 15	5
	230	90	0949 16	5
	230	45	0949 17	5

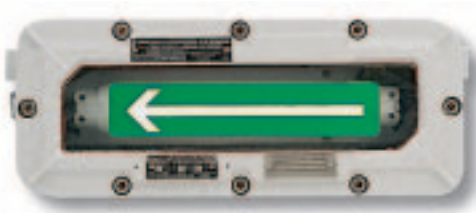
Spanish

	Length. (mm)	Width. (mm)	Cat. No.	Pack.
	237	109	0949 19	5
	175 + 57	57	0949 18	5

Portuguese

	Length. (mm)	Width. (mm)	Cat. No.	Pack.
	237	109	0949 13	5
	175 + 57	57	0949 14	5

IIB and IIC units for emergency lighting armoured and non-armoured cable flameproof



0947 48 + label



0947 16 + label

Incandescent rectangular IIB

- Two 40 W max. bulbs
- Grey painted aluminium alloy cover
- Sealed toughened lamp glass
- E27 lampholders
- Flat flamepath
- Operates in any position
- Fixed using 2 lugs which are supplied fitted
- Connection via 2 x 1 x 4 mm² terminals
- Internal earth 1 x 4 mm²
- External earth 1 x 4 mm²
- Two M20 threaded cable entries
- Supplied with one M20 blanking plug

Catalogue numbers

Permissible lamps (not supplied)	Weight	Volume	Cat. No.	Pack
Incandescent 2 x 40 W	5.7	9	0947 48	1

Incandescent cylindrical IIC

- Two 40 W max. tubes
- Zamak end caps and cover, anticorrosion treated and painted grey
- Sealed toughened glass tube
- E27 lampholders
- Threaded access cover with O ring seal
- Connection via 2 x 3 x 2.5 mm² terminals
- External earth bracket 1 x 4 mm²
- Operates in any position
- Fixed using 2 lugs supplied
- Two 3/4" NPT tapped cable entries
- Supplied with one 3/4" NPT blanking plug

Catalogue numbers

Permissible lamps (not supplied)	Weight	Volume	Cat. No.	Pack
Incandescent 2 x 40 W	7.1	36	0947 16	1

Accessories for 0947 16




Reflector

	Cat. No.	Pack
White painted galvanized steel, guard fitted separately	 0948 68	1

Protective guards

Zinc-plated steel (20 microns), reflector fitted separately	 0948 72	1
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Fixings - set of 2 brackets

Quick one-hand fixing, zinc-plated steel	 0948 97	1
316 stainless steel version	0948 89	1
Fixing on flat surface, zinc-plated steel	 0948 98	1
316 stainless steel version	0948 90	1
With zinc-plated steel brackets for fixing		
- 1" 1/2 (Ø 49 mm) or 1" 1/4 (Ø 42 mm) tube	0948 99	1
- 316 stainless steel version	0948 92	1
- 2" (Ø 60 mm) tube	 0948 91	1
- 316 stainless steel version	0948 93	1

Fall prevention fixing kit (1.20 m stainless steel chain)	0938 19	1
---	---------	---

- 8 W and 18 W (see page 111)

Spare parts (see page 290)

Cable glands (see pages 252-263)

Zone 1 & 2 - 21 & 22		ATEX	IEC	EC	II2 G/D
EEx d IIB	T4	T = 135°C	IP 66	IK09	

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- **According to CENELEC:**
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d IIB T4
 - EC 0081 II 2 D T = +135°C : for dust
- **According to IEC:**
 - Conforming to standards IEC 60079-0/1/7 Ex d IIB T4
 - DIPA 21 TA = +135°C for dust

Approvals :

- Approved type BRI40
- CENELEC LCIE 03 ATEX 6098X
- IEC LCIE Ex 03.009X
- **CE** declaration of conformity No. 50252
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaire
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”

Protection index :

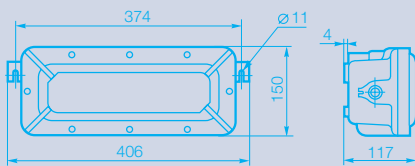
- IP66 according to EN 60529 and IEC 60529
- Mechanical resistance IK09 according to EN 50102

Operating temperature :

- 20°C to + 40°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :

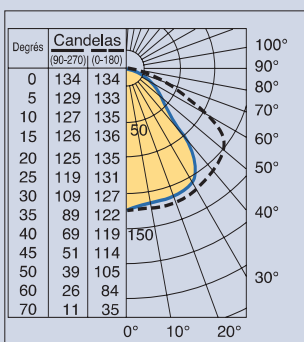


Photometric data (photometry p. G62)

Polar curves for a 1000 lm out put according to NF C 71-120

Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse



Zone 1 & 2 - 21 & 22		ATEX	IEC	EC	II2 G/D
EEx d IIC	T5	T = 100°C	IP 68	IK09	

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- **According to CENELEC:**
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d IIC T5
 - EC 0081 II 2 D T = +100°C : for dust
- **According to IEC:**
 - Conforming to standards IEC 60079-0/1/7 Ex d IIC T5
 - DIPA 21 TA = +100°C for dust

Approvals :

- Approved type FLd
- CENELEC LCIE 97 6012
- IEC LCIE Ex 03.012
- **CE** declaration of conformity No. 50203
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaire
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”

Protection index :

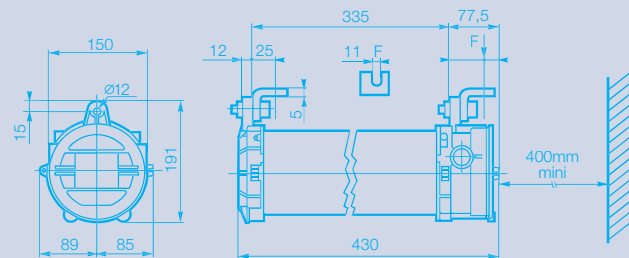
- IP66/67 according to EN 60529 and IEC 60529
- Mechanical resistance IK09 according to EN 50102

Operating temperature :

- 40°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :

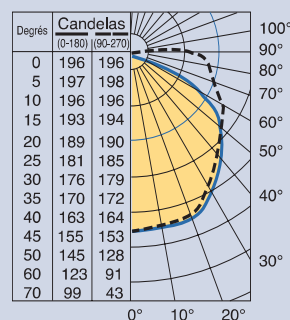


Photometric data (photometry p. G62)

Polar curves for a 1000 lm out put according to NF C 71-120

Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse



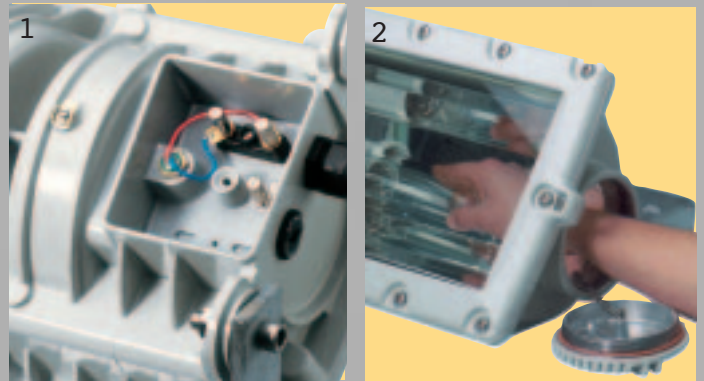
Data sheet available on request

Advantages of floodlights

Quick and easy to fit

1 Marine grade painted aluminium with increased safety terminal box, for easy wiring, even on offshore installation.

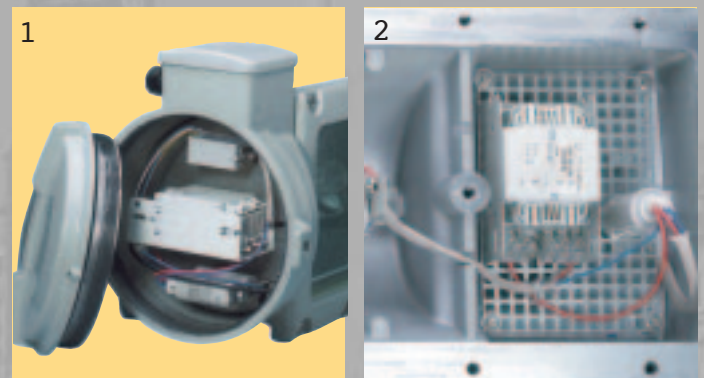
2 Threaded cover with safety chain provides rapid access to the lamp, for easier installation and maintenance on-site.



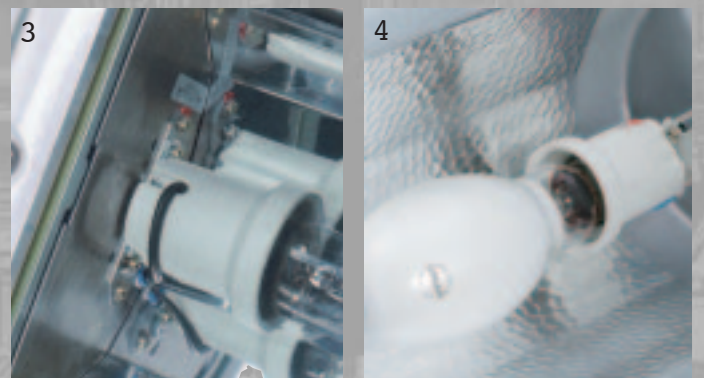
Easy maintenance

See pictures :

1 and 2 Extended service life: ballasts, igniters, capacitors thermally insulated from the lamp compartment.



3 and 4 Rapid adjustment of lamp position for a narrow, medium or wide angle beam.



Advantages of ferromagnetic ballasts

High pressure discharge lamps

High pressure discharge lamps must be used in conjunction with power supply accessories known as ballasts. Ferromagnetic ballasts operate according to the principle of

self-induction (choke). In some cases one choke can be used for several lamps. The design of the ballast must take account of the voltage and frequency of the mains power supply.

Optimum operation of the lamp

Ballasts must supply the lamp with current and power values which correspond exactly to its

specifications, to ensure optimum light output.

Minimum energy consumption

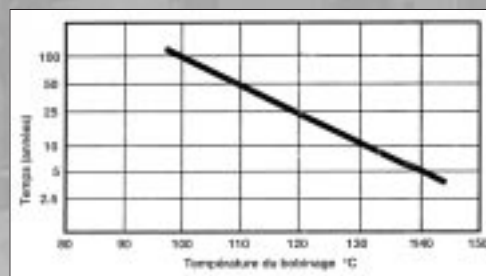
A ballast which is not very economical causes considerable energy losses and significantly reduces the overall efficiency of the ballast-luminaire system. Moreover, the heat due to the ballast's energy losses limits the field of

application of the luminaire.

The design of ballast integrated in ATX flood light reduces energy losses to a minimum, optimizes light output, light colour and lamp service life.

Maximum service life

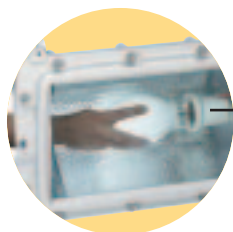
The use of class H insulating materials, designed to withstand temperatures of more than 180°C, enables ballasts to achieve a maximum service life. The diagram opposite illustrates the relationship between the temperature of the copper coil and the service life of the ballast. A 10°C fall or rise in the temperature produces a 50% increase or decrease in the service life of the ballast.



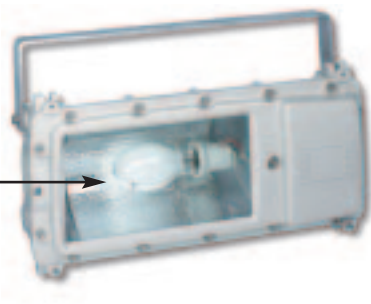
International approvals

All ballasts used are ENEC approved

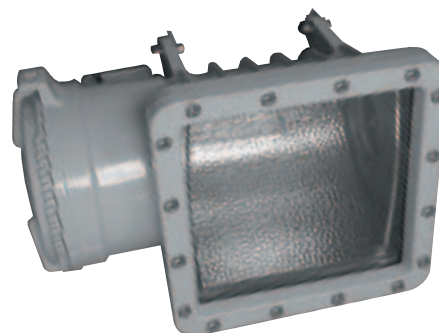
230/240 V - 50 Hz IIB floodlights, armoured and non-armoured cable flameproof



Quick access to the lamp





Type 1 - 0951 79 + 0951 93



Type 2 - 0952 76 - 0952 77 - 0952 83

T° rating improved : T4 with 400 W sodium

70 to 500/1000 W floodlights

- Compensated power supply 230/240 V ($\pm 10\%$) 50 Hz – Power factor ≥ 0.9
- 24 V AC/DC power supply for Cat. No. 0951 65
- Power supply 230 V / 50 Hz (095276/83) - 220 V / 50 Hz (0952 77)
- Grey painted marine grade aluminium alloy body and bezel
- Toughened glass sealed onto frame
- Toughened glass seal onto body (type 2)*
- Stainless steel fasteners
- Highly polished anodised aluminium internal reflector
- E40 lampholder (except 951 65)
- Adjustable lampholder for changing lighting from narrow to wide beam
- Increased safety terminal box
- Components: ballast, igniter, capacitor separated from the lamp housing, ensuring increased thermal insulation (type 1)*
- Rapid access to the lamp via threaded cover with safety chain
- Frame has reversible hinge so that it can be pivoted on both sides
- Operates in any position (type 1)* - except position lamp limiting
- Operates only in position  and  (type 2)*
- 2 self-tightening connection terminals: capacity: 2 x 6 mm² max.
 - 2 earthing terminals capacity 6 mm²
 - external earth 4 mm²
- Two M20 through wiring cable entries
- Supplied with :
 - One M20 blanking plug and two locknuts
 - One M20 cable gland for non armoured cable (sealed \varnothing 6.5 to 14.5 mm)

Catalogue numbers

Permissible lamps (not supplied)	Type		Weight (Kg)	Volume (dm ³)	Cat. No. 230/240 V	Pack.
	(1)	(2)				
150 W HP sodium	x	x	27.3	79.4	0951 66	1
250 W HP sodium	x	x	28.3	79.4	0951 69	1
400 W HP sodium		x	29.8	79.4	0951 79	1
250 W mercury vapour	x	x	27.3	79.4	0951 67	1
400 W mercury vapour		x	27.8	79.4	0951 73	1
250 W metal halide	x	x	28.3	79.4	0951 68	1
400 W metal halide		x	29.8	79.4	0951 77	1
500 W / 1000 W halogen		x	24.3	79.4	0951 84	1
2 x 70 W halogen H3 24 V (3)			25.3	79.4	0951 65	1

(1) Ovoid - (2) Tubular - (3) Lamps supplied

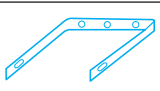
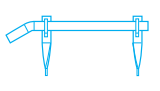


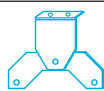

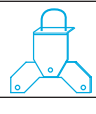
* Type 1 : cat no. 0951 65/66/67/68/69/73/77/79/84

* Type 2 : cat no. 0952 76/77/83

Catalogue numbers

Permissible lamps (not supplied)	Type		Weight (Kg)	Volume (dm ³)	Cat. No. 220 V	Cat. No. 230/240 V	Pack.
	(1)	(2)					
250 W sodium	x	x	35,5	104,4		0952 76	1
400 W sodium	x	x	35,5	104,4	0952 77		1
500 W / 1000 W halogen	x	x	32	104,4		0952 83	1

Accessories

	Cat. No.	Pack
Galvanised steel hinged bracket for For 0951 65/66/67/68/69/73/77/79/84 For 0952 76/77/83	 0951 93	1
Set of 2 galvanised steel clamp brackets for: - Fixing on 1" 1/4 (\varnothing 42 mm) or 1" 1/2 (\varnothing 49 mm) tube - Fixing on 2" (\varnothing 60) tube	 0951 98	1
For 0951 65/66/67/68/69/73/77/79/84	0951 90	1
Clip-on overhead diffuser (1) (galvanised steel, black painting)	 0951 91	1
For 0951 65/66/67/68/69/73/77/79/84	0951 91	1
Clip-on protective guard (1) (zinc plated steel)	 0951 95	1
For 0951 65/66/67/68/69/73/77/79/84	0951 95	1
Set of horizontal fixings (galvanised steel) For 0951 65/66/67/68/69/73/77/79/84 For 0952 76/77/83	 0951 97	1
For 0951 65/66/67/68/69/73/77/79/84	0951 97	1
Fixing on tube 1" 1/4 (\varnothing 42 mm) or 1" 1/2 (\varnothing 49mm) (galvanised steel) For 0951 65/66/67/68/69/73/77/79/84 For 0952 76/77/83	 0952 84	1
For 0951 65/66/67/68/69/73/77/79/84	0952 84	1
Fixing on tube 2" (60 mm) (galvanised steel) For 0951 65/66/67/68/69/73/77/79/84 For 0952 76/77/83	 0952 86	1
For 0951 65/66/67/68/69/73/77/79/84	0952 86	1
400 W mercury vapour cylindrical lamps	0948 95	1

(1) These 2 accessories cannot be fitted together

For special options, please consult us:

- 110/127 V 50/60 Hz - 208 V - 254 V, 50 Hz ...
- 2 additional terminals for 3-phase + neutral
380/415 V loop in loop out (connection possible)

Type 2 (IIC consult us)

Spare parts (see page 290)

Cable gland for armoured cable (see page 252-262)

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

• According to CENELEC :

- Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18-19
- EC 0081 II 2 G : for gases EEx de IIB T (*)
- EC 0081 II 2 D : for dust T = (*)

• According to IEC :

- Conforming to standards IEC 60079-0/1/7
- Ex de II B - T = (*) for gas
- DIPA 21 TA = (*) for dust

(*)	Gas				Dust	
	Temperature class according to Ta				Surface temperature (applied to Ta = 40°C)	
	Type 1	Type 2	Type 1	Type 1	Type 1	Type 2
Source	+ 40°C	+ 40°C	+ 50°C	+ 55°C		
2 x 70 W - H3	T4		T4	T4	115°C	
150 W HP sodium	T4		T3	T3	130°C	
250 W HP sodium	T3	T4	T3	T3	180°C	130°C
250 W halide	T3		T3	T3	182°C	
250 W mercury	T3		T3	T3	179°C	
400 W HP sodium	T3	T4	T3	T3	195°C	129°C
400 W halide	T3		T3	T3	189°C	
400 W mercury	T3		T3	T3	192°C	
500 W halogen	T2	T3	T2	T2	252°C	181°C
1000 W halogen	T1	T2	T1	T1	363°C	251°C

Type 1 : cat. no. 0951 65/66/67/68/69/73/77/79/84

Type 2 : cat. no. 0952 76/77/83

Approvals :

- Approved type PJD
- LCIE 99 ATEX 6002
- LCIE Ex 99.002
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"
- declaration of conformity No. 50207
- Conforming to standards EN 60598-1 and IEC 598-1 for luminaires
- Conforming to the electromagnetic compatibility (EMC) standard EN 55015

• Protection index :

- IP66 according to IEC 60529 and EN 60 529
- Impact resistance IK10 according to EN 50102

• Anticorrosion and climate treatment : see page G50

• Operating temperature :

- 20°C to + 55°C (Type 1)*
- 40°C to + 40°C (Type 2)*

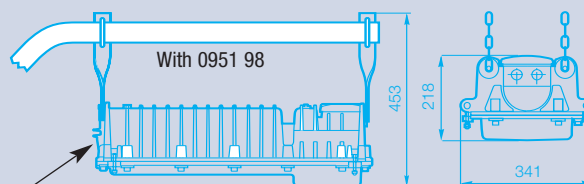
Product features/customer benefits

- Easy and fast access to the lamp : **rapid maintenance**
- Adjustment of beam from narrow to wide angle : **can be adapted on-site**
- Separate compartments for equipment : **reliability, improved service life**
- "e" terminal box : **easy installation and wiring**

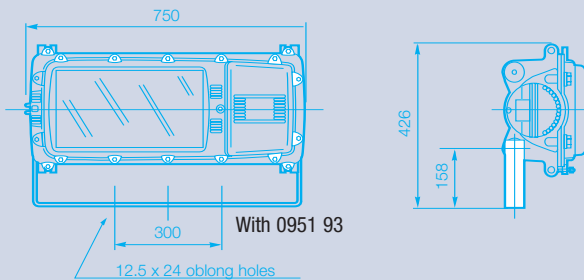
Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II2G/D
EEx de IIB	T4-T3-T2-T1	T° = 115°C to 363°C		IP66 IK 10

• Dimensions (mm) :

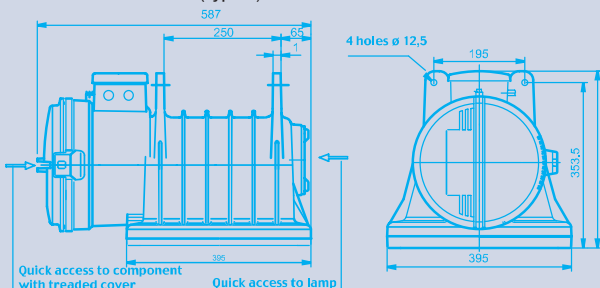
Cat. no. 0951 65/66/67/68/69/73/77/79/84 (PM)*



Threaded cover for quick access to the lamp



Cat. no. 0952 76/77/83 (Type 2)*

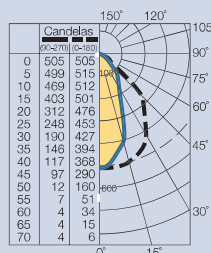


Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120

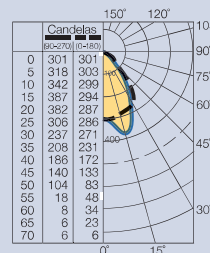
Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

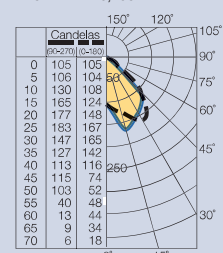
250 W halide INTENSIVE
Efficiency 68.3 %
NF C 71-121 : 0,68B



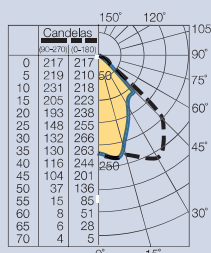
250 W halide EXTENSIVE
Efficiency 67.9 %
NF C 71-121 : 0,68C



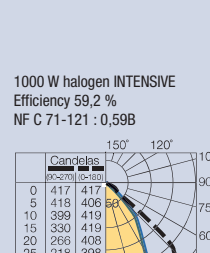
400 W halide EXTENSIVE
Efficiency 46.7 %
NF C 71-121 : 0,46C



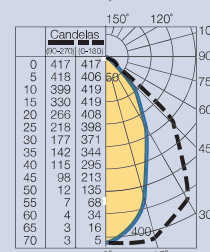
400 W halide INTENSIVE
Efficiency 49.3 %
NF C 71-121 : 0,49C



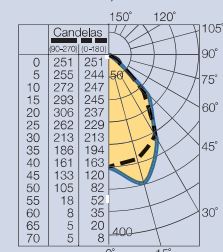
400 W halide :
Efficiency rate lower than 250W due to thermal deflector between glass and lamp, requested for T3.



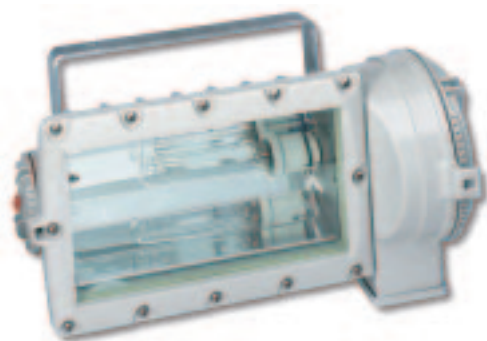
1000 W halogen INTENSIVE
Efficiency 59.2 %
NF C 71-121 : 0,59B



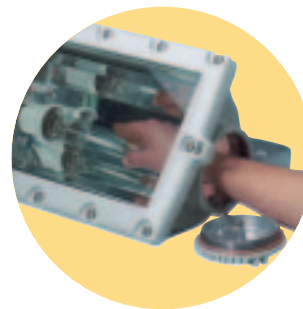
1000 W halogen EXTENSIVE
Efficiency 57.7 %
NF C 71-121 : 0,57C



Data sheet available on request



0951 57 + 0951 94



Quick access to the lamp

150 to 1000 W floodlights

- Compensated power supply 230/240 V ($\pm 10\%$) 50 Hz
– Power factor ≥ 0.9 (except 0951 61)
- Grey painted marine grade aluminium alloy body
- Toughened glass sealed onto body
- Highly polished anodised aluminium internal reflector
- Increased safety terminal box
- E40 lampholder
- Adjustable lampholder to change lighting from narrow to wide angle
- Rapid access to the lamp via threaded cover with safety chain
- Direct access to the components via screw-on cover: ballasts, igniters, capacitors separated from the lamp housing, ensuring total thermal insulation
- Operates in any position subject to lamp performance
– 2 self-tightening connection terminals: capacity $2 \times 6 \text{ mm}^2$ maximum
– 2 earthing terminals capacity 6 mm^2 - External earth 4 mm^2

Two M20 through wiring cable entries: supplied with

- One M20 cable gland (sealed $\varnothing 6.5$ to 14.5 mm) - non armoured
- One M20 blanking plug and two M20 locknuts

Catalogue numbers

Permissible lamps (not supplied)	Type		Weight (Kg)	Volume (dm ³)	Cat. No. 230/240 V	Pack.
	(1)	(2)				
150 W HP sodium	x	x	27	104.4	0951 55	1
250 W HP sodium	x	x	28	104.4	0951 56	1
400 W HP sodium		x	30	104.4	0951 57	1
600 W HP sodium		x	33	104.4	0951 60	1
250 W mercury vapour	x	x	28	104.4	0951 62	1
400 W mercury vapour		x	28.5	104.4	0951 58	1
250 W metal halide	x	x	28	104.4	0951 63	1
400 W metal halide		x	30	104.4	0951 59	1
500 W / 1000 W halogen		x	25	104.4	0951 61	1
(1) Ovoid - (2) Tubular						

Accessories

	Cat. No.	Pack
Galvanised steel hinged brackets	0951 94	1
Set of 2 galvanised steel clamp brackets for:		
- Fixing on 1" 1/4 ($\varnothing 42 \text{ mm}$) or 1" 1/2 ($\varnothing 49$) tube	0951 98	1
- Fixing on 2" ($\varnothing 60$) tube	0951 90	1
Guard to be fixed by screws (1)	0951 85	1
Screw-on overhead diffuser (1) (galvanised steel, black painting)	0951 86	1
Screw-on protective guard (1) (zinc plated steel)	0951 87	1
Set of horizontal fixings (galvanised steel)	0951 88	1
Fixation sur tube 1" 1/4 ($\varnothing 42 \text{ mm}$) ou 1" 1/2 ($\varnothing 49 \text{ mm}$) (galvanised steel)	0951 71	1
Fixation sur tube 2" (60 mm) (galvanised steel)	0951 89	1
400 W mercury vapour cylindrical lamp	0948 95	1

(1) These 2 accessories cannot be fitted together

For special options, please consult us:

- 110/127 V 50/60 Hz - 208 V - 254 V, 50 Hz
- 2 additional terminals for 3-phase + neutral 380/415 V
(loopin loopout connection possible)
- Temperature class T4

Spare parts (see page 290)

Cable gland for armoured cable (see page 252-262)



TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification

• According to CENELEC :

- Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18-19
- EC 0081 II 2 G : EEx de IIC T (*) for gases
- EC 0081 II 2 D : T = (*) for dust

• According to IEC :

- Conforming to standards IEC 60079-0/1/7
- Ex de II B - T = (*)
- DIP A 21 TA = (*) for dust

(*) Lamp	Gas			Dust
	Temperature class according to Ta			
	+ 40°C	+ 50°C	+ 55°C	Surface temperature (applied to Ta = 40°C)
150 W HP sodium	T4	T3	T3	+ 130°C
250 W HP sodium	T3	T3	T3	+ 180°C
250 W halide	T3	T3	T3	+ 182°C
250 W mercury ¹	T3	T3	T3	+ 179°C
400 W HP sodium	T3	T3	T3	+ 195°C
400 W halide	T3	T3	T3	+ 189°C
400 W mercury	T3	T3	T3	+ 192°C
600 W HP sodium	T2	T2	T2	+ 242°C
500 W halogen	T2	T2	T2	+ 252°C
1000 W halogen	T1	T1	T1	+ 363°C

• Approvals :

- Approved type PJd
- LCIE 99 ATEX 6002
- LCIE Ex 99.002
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"
- declaration of conformity No. 50207
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to the electromagnetic compatibility (EMC) standard EN 55015

• Protection index :

- IP66/67 according to IEC 60529 and EN 60 529
- Impact resistance IK10 according to EN 50102

• Anticorrosion and climate treatment : see page G50

• Operating temperature :

- 20°C to + 55°C

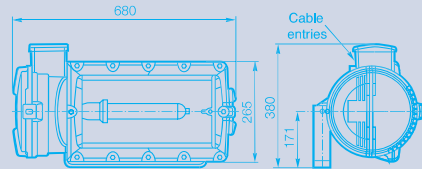
Product features/customer benefits

- Easy and fast access to the lamp : **rapid maintenance**
- Adjustment of beam from narrow to wide angle : **can be adapted on-site**
- Separate compartments for equipment : **reliability, improved service life**
- "e" terminal box : **easy installation and wiring**

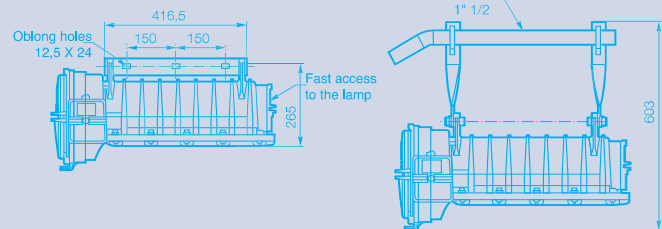
Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II2G/D	IK 10
EEx de IIC	T4-T3-T2-T1	T° = 130°C to 363°C			IP 66/67

Dimensions (mm) :

With 0951 94



With 0951 90/98

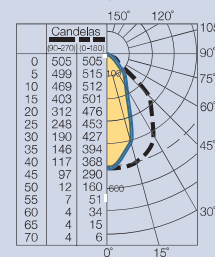


Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120

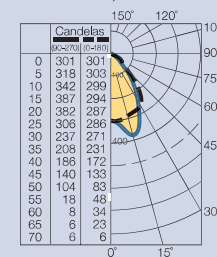
Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

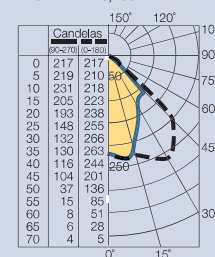
250 W halide INTENSIVE
Efficiency 68,3 %
NF C 71-121 : 0,68B



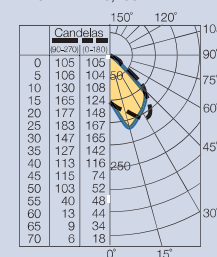
250 W halide EXTENSIVE
Efficiency 67,9 %
NF C 71-121 : 0,68C



400 W halide INTENSIVE
Efficiency 49,3 %
NF C 71-121 : 0,49C



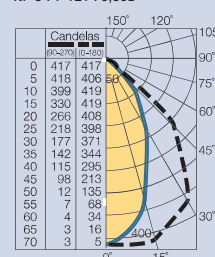
400 W halide EXTENSIVE
Efficiency 46,7 %
NF C 71-121 : 0,46C



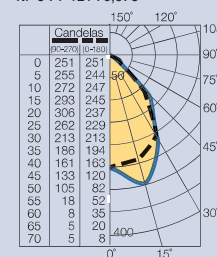
400 W halide :

Efficiency rate lower than 250W due to thermal deflector between glass and lamp, requested for T3.

1000 W halogen INTENSIVE
Efficiency 59,2 %
NF C 71-121 : 0,59B



1000 W halogen EXTENSIVE
Efficiency 57,7 %
NF C 71-121 : 0,57C



Data sheet available on request

Compression and barrier glands EEx "e" and EEx "d"



The new range of EEx "e" and EEx "d" cable glands for armoured cable adds even more advantages :

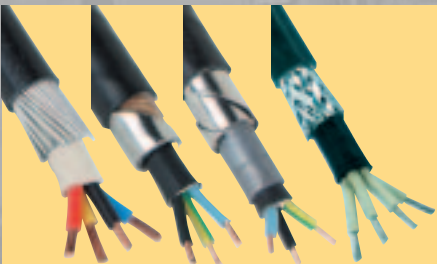
- No ingress problems.
- No mechanical stress on the external cable sheath.
- No risk of losing weatherproof seal.
- Fast and easy inspection.
- No risk of assembly error.

ATX Safety Plus gives you more

Introducing ATX "Safety Plus" with the new range of cable glands :

- Flexibility on site.
- Adapted to any type of armoured cable (steel tape, lead sheath, braid, wire).
- No gripping problems even with gloves

All armoured cables



Metric thread



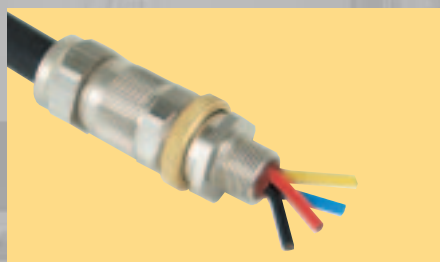
NPT thread



With elastomer seal



With sealing compound



IIC wellglass luminaires for low energy, halogen and incandescent lamps flameproof



0947 36
wellglass luminaire AB14

For 18 to 200 W lamps without ballast, all voltages

- Grey painted grade marine aluminium alloy body and bezel
- Internal aluminium reflector
- Sealed shock resistant wellglass
- E27 lampholder
- Threaded flamepath
- Connection via 1 x 2.5 mm² terminal on lampholder or 2 x 4 mm² on terminal block supplied
- Suspension via integrated eye bolt with \varnothing 11 mm hole for version with side cable entries 0947 36 and 0947 37
- Suspension direct on conduit NPT 3/4" for 0947 38
- Supplied with one blanking plug : M20 - 0947 36
NPT 3/4" - 0947 37
- Permissible lamps (not supplied):
200 W incandescent max.
160 W mixed max.
150 W halogen max.
18/20/25 W compact fluorescent max.

Catalogue numbers

Cable entries	Weight (Kg)	Volume (dm ³)	Cat. No. M20	Cat. No. NPT 3/4	Pack
2 side	5	35.3	0947 36	0947 37	1
1 via the top	5	35.3		0947 38	1

Accessories

	Cat. No.	Pack
Zinc-plated steel protective guard	0947 73	1
Hinged brackets for installation on flat surface	0947 76	1
External reflector	0947 69	1

For special options, please consult us:

- Possibility of signalling by adding coloured globe (power limited to 100 W)
- Discharge lamp with separate wiring accessory box

Spare parts (see page 290)

Cable glands (see pages 252-263)

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II2G/D	IK 08
EEx d IIC	T6-T5-T4-T3	T° = 75°C to 135°C			IP 66

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

• According to GENELEC:

- Conforming to ATEX 94/9 EC Directive and standards EN 50014 - 18
- EC0081 II2G for gas EEx d IIC T = (*)
- EC0081 II2D T = (*) for dust

• According to IEC:

Conforming to standards IEC 60079 - 0/1/7

- LCIE Ex 02 - 004
- Ex d IIC T (*) for gas
- DIPA 21 TA = (*) for dust

T (*) Power and source	Dust Surface temp. Ta=40°C	Gas					
		Temp class according to ambient temperature (Ta)					
		Ta = + 40°C		Ta = + 50°C			
		Cable temp.	Temp. class	Opening time	Cable temp.	Temp. class	Waiting time *
18 W fluorescent	+ 75°C		T6			T5	
20 W fluorescent	+ 75°C		T6			T5	
25 W fluorescent	+ 75°C		T6			T5	
70 W halogen	+ 120°C		T4	15 min	+ 90°C	T3	15 min
150 W halogen	+ 135°C	+ 85°C	T4	10 min	+ 95°C	T3	15 min
160 W mixed	+ 135°C	+ 115°C	T4	10 min	+ 125°C	T3	15 min
200 W incandescent	+ 135°C	+ 115°C	T4	10 min	+ 125°C	T3	15 min

* Before opening

Approvals :

- Approved type AB14
- LCIE 02 ATEX 6053
- declaration of conformity 50231
- Conforming to standard EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"
- Conforming to standard EN 55015 concerning electromagnetic compatibility (EMC)

Protection index : IP 66 according to EN 60529 and IEC 60529

- Mechanical resistance IK 08 according to EN 50102

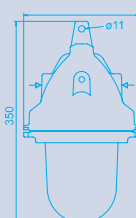
Anticorrosion treatment and climate protection : see page G50

Operating temperatures : - 40°C to + 50°C

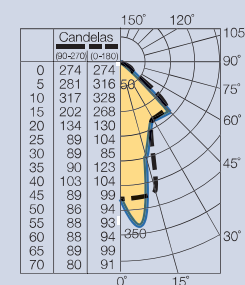
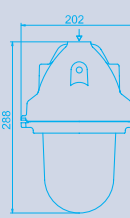
200 W incandescent
Efficiency 66,5 %
NF C 71-121 : 0,60 H + 0,06 T

Dimensions (mm) :

0947 37



0947 38



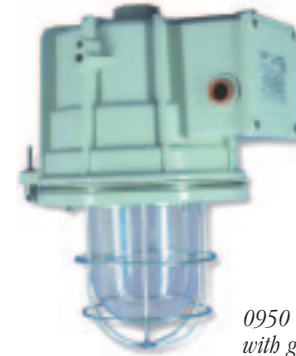
Data sheet available on request

Part number in bold : fast moving references

IIC wellglass luminaire for incandescent, compact fluorescent or discharge lamp - 230/240 V - 50 Hz flameproof



0950 05 125 W
mercury vapour



0950 05
with guard 0947 73

Wellglass luminaire 18 to 200 W

- Grey painted marine grade aluminium alloy body and bezel
- Aluminium internal reflector
- Sealed, shock-resistant wellglass
- E27 lampholder
- Internal wiring with high-temperature cable
- Screw-in flameproof joint
- Stainless steel fastenings
- Closed by screwing on the bezel
- Connection in increased safety EEX “e” compartment with terminal block with 2 x 2 x 6 mm² vibration resistant or 2 x 6 mm² terminals (lug not supplied) + 1 earth terminal per entry (4 mm²)
- External earth : 4 mm²
- Operate in any position
- 2 lateral threaded entries via M20 cable gland
- Supplied with :
 - 1 x M20 cable gland (sealed Ø 6.5 to 14.5 mm) not armoured
 - 1 x M20 blanking plug

For lamps without ballast

Permissible lamps (not supplied)	Weight (Kg)	Volume (dm ³)	Cat. No. 230/240 V	Pack
18 W compact fluorescent	7.5	30	0950 00	1
200 W incandescent (1)	7.5	30	0950 03	1


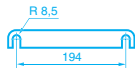
For discharge lamps

- 230/240 V~ (± 10 %) 50 Hz power supply, compensated
- Power factor ≥ 0.9

	Weight	Volume	230/240 V	
80 W mercury vapour	9	30	0950 01	1
125 W mercury vapour	9	30	0950 05	1
70 W high-pressure sodium (2)	9	30	0950 13	1

- (1) 150 W halogen lamp or 160 W mixed lamp can be used
 (2) Use lamps with built-in ignitor

Accessories

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
External reflector	3.2	97	0947 69	1
Zinc-plated steel protective guard	0.4	97	0947 73	1
Wall bracket	3.4	3	0950 79	1
M10 eyebolt for suspension 	0.1	0.2	0950 81	1
Mounting strap 	0.9	0.6	0950 82	1

For special options, please consult us:

- Other voltage : 220, 240 V 60 Hz
- Terminal block with 2 additional terminals for 380/415 V 3-phase + neutral power supply loopin loopout
- Top entry
- Fixing accessories for metal tubular structure
- Stainless steel fixing accessories (for wall or ceiling mounting)

Cable gland for armoured cable (see page 252-262)

NEW



TECHNICAL DATA

Zones :

- 1 & 2 and 21 - 22
- **According to CENELEC :**
- Conforming to ATEX Directive 94/9 EC and standards EN 50014 - 18 - 19
- EC0081 II2G for gas EEx de IIC T = (*)
- EC0081 II2D T = (*)
- **According to IEC :**
- Conforming to standards IEC 60079 - 0/1/7
- Ex de IIC T = (*) for gas
- DIPA 21 TA = (*) for dust

Power/ lamp type	surface Ta =	Gas					
		Temperature class according to ambient temperature (Ta) and cooling time before opening					
		lamp glass facing down			lamp glass facing up		
Ta = +55°C	Ta = 40°C	Ta = 50°C	Ta = 55°C	Ta = 40°C	Ta = 50°C	Ta = 55°C	
70 W sodium	+135°C	T5 20 mm	T4 10 mm	T4 10 mm	T4 10 mm	T4 10 mm	T4 10 mm
80 W mercury	+135°C	T4 10 mm	T4 10 mm	T4 10 mm	T4 10 mm	T4 10 mm	T4 10 mm
200 W incan- descent	+200°C	T4 10 mm	T3 05 mm	T3 05 mm	T3 05 mm	T3 05 mm	T3 05 mm
125 W mercury	+200°C	T3 15 mm	T3 15 mm	T3 15 mm	T3 15 mm	T3 15 mm	T3 15 mm
150 W halogen	+135°C	T4 10 mm	T4 10 mm	T4 10 mm	T4 10 mm	T3 05 mm	T3 05 mm
160 W mixed	+200°C	T3 05 mm	T3 05 mm	T3 05 mm	T3 05 mm	T3 05 mm	T3 05 mm
18 W compact fluorescent	+85°C	T6 20 mm	T6 20 mm	T6 20 mm	T6 20 mm	T5 10 mm	T5 10 mm

Certification :

- Approved type LT1d
- LCIE 02 ATEX 6165
- LCIE Ex 02 - 017
- declaration of conformity 50246
- Conforming to standard EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1
"combustible dust"
- Conforming to standard EN 55015 concerning electromagnetic compatibility (EMC)

Protection index :

- IP66/67 according to IEC 60529
- IK08 mechanical resistance according to EN 50102

Anticorrosion treatment and climate protection : see page G50

Operating temperature : - 40°C + 55°C

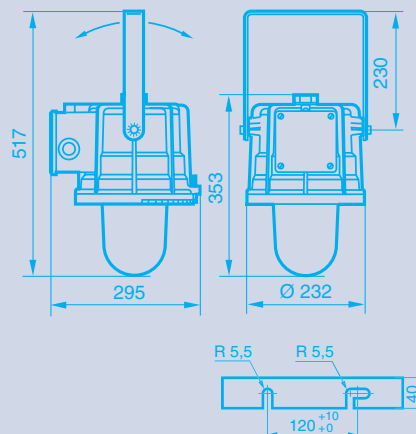
Product features/customer benefits

- lamp can be accessed by opening the bezel : **quick maintenance**
- EEX "e" terminal box : **installation and wiring easier and faster**

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II2G/D	IK08
EEx de IIC	T6-T5-T4-T3	T°=+ 85°C to + 200°C		IP66/67	

Dimensions (mm) :

With 0950 79

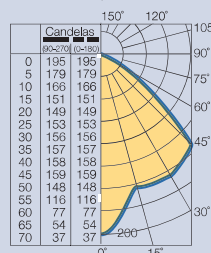


Photometric data (photometry p. G62) polar curves for a 1000 lm output, according to NF C 71-120

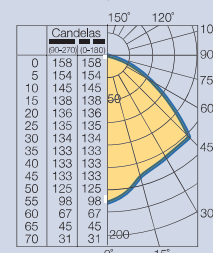
Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

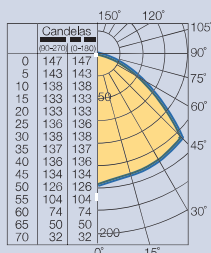
70 W HP sodium
Efficiency 54,4 %
NF C 71-121 : 0,54 F



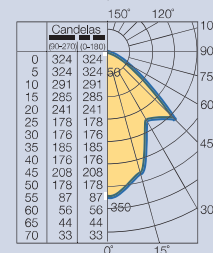
80 W mercury
Efficiency 46,8 %
NF C 71-121 : 0,47 F



125 W mercury
Efficiency 48 %
NF C 71-121 : 0,48 F



200 W incandescent
Efficiency 59,3 %
NF C 71-121 : 0,59 D



IIB - IIC wellglass luminaires for incandescent or discharge lamps 230/240 V - 50 Hz flameproof



0950 17

0950 17
with guard 0950 78

Wellglass luminaire 85 W - 500 W

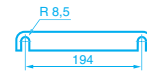
- Compensated power supply 230/240 V ($\pm 10\%$) 50 Hz
- For 85W induction: power supply 230/240 V (+ 6% - 10%) 50/60 Hz
- Power factor ≥ 0.9
- Grey painted marine grade aluminium alloy body and bezel
- Internal aluminium reflector
- Sealed shock resistant wellglass. IIB version hinged
- Flat joint for IIB version, threaded on IIC version
- E 40 lampholder with lock thread
- High temperature internal wiring
- Operates in any position subject to lamp type
- Connection in increased safety "e" compartment to terminal block via two 2 x 6 mm² self-tightening terminals or 6 mm² terminals (with lug not supplied) + 1 earth terminal per cable entry (4 mm²)
- External earth: 4 mm²
- Two lateral threaded entries via M20 cable gland
- Supplied with:
 - One M20 non armoured cable gland (sealed \varnothing 6.5 to 14.5 mm)
 - One M20 blanking plug

Catalogue numbers

Permissible lamps (not supplied)	Weight (Kg)	Volume (dm ³)	Type IIB	Type IIC	Pack
85 W electro magnetic induction (1) (2)	22	86.7	0950 24	0947 20	1
100 W sodium	22	86.7	0950 25	0947 21	1
150 W high pressure sodium	22.5	86.7	0950 23	0947 22	1
250 W high pressure sodium	22.5	86.7	0950 21	0947 23	1
250 W metal halide	22.5	86.7	0950 26	0947 24	1
250 W mercury vapour	22.5	86.7	0950 19	0947 25	1
250 W mixed					
Incandescent 300 to 500 W	19	86.7	0950 17	0947 26	1
(1) Service life 60,000 hours					
(2) Lamp supplied					

Accessories

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
External reflector	3.4	108	0950 77	1
Protective guard	1.2	27	0950 78	1
Wall bracket	3.4	8	0950 80	1
M10 suspension ring	0.1	0.2	0950 81	1
Plate for installation on ceiling	0.9	0.6	0950 83	1



For special options, please consult us:

- Other voltages: 220, 240 V 60 Hz
- Terminal block with 2 additional terminals for 380/415 V 3-phase + neutral power supply
- Cable entry via the top
- Device with additional halogen lamps included in the wellglass , to provide illumination while the discharge lamps are starting up
- Component for fixing on tubular metal structure
- Stainless steel fixing component (wall bracket or plate for installation on ceiling)

Spare parts (see page 290)

Cable gland for armoured cable (see page 252-262)



TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

- According to GENELEC :
 - Conforming to ATEX 94/9 EC Directive and standards EN 50014-18-19
 - EC 0081 II2G for gas EEx de IIB/IIC T = (*)
 - EC 0081 II2D T = (*) for dust
- According to IEC:
 - Conforming to standards IEC 60079 - 0/1/7
 - Ex de IIB/IIC T = (*) for gas
 - DIPA 21 TA = (*) for dust

T (*):

Power and lamp type	Dust	Gas			
		Temp. class according to ambient temperature (Ta) and cooling time before opening			
		Lamp glass facing down		Lamp glass facing up	
Surface temp.	Ta=40°C	Ta = + 40°C	Ta = + 55°C	Ta = + 40°C	Ta = + 55°C
100 W HP sodium	+ 100°C	T6 25 mm	T5 25 mm	T5 25 mm	T4 25 mm
150 W HP sodium	+ 135°C	T6 40 mm	T5 40 mm	T4 40 mm	T4 40 mm
250 W HP sodium	+ 200°C	T4 20 mm	T4 20 mm	T3 20 mm	T3 20 mm
250 W mercury vapour	+ 200°C	T4 20 mm	T4 20 mm	T3 20 mm	T3 20 mm
300 W incandescent	+ 200°C	T5 15 mm	T4 15 mm	T3 15 mm	T3 15 mm
500 W incandescent	+ 200°C	T3 15 mm	T3 15 mm	T3 15 mm	T2 15 mm
250 W mixed	+ 200°C	T4 15 mm	T4 15 mm	T3 15 mm	T3 15 mm
250 W halide	+ 135°C	T4 15 mm	T4 15 mm	T4 15 mm	T3 15 mm
85 W induction	+ 85°C	T6 25 mm	T6 25 mm	T6 25 mm	T5 25 mm

Approvals :

- LT2d approved type
- LCIE 02 ATEX 6165
- LCIE Ex 02 - 017
- declaration of conformity 50246
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standard EN 55015 concerning electromagnetic compatibility (EMC)
- Conforming to standards EN 50281-1-1 and IEC 61281-1-1 "combustible dust"

Protection index :

- IP66/67 according to EN 60529 and IEC 60529
- Mechanical resistance IK08 according to EN 50102

Anticorrosion treatment and climate protection : see page G50

Operating temperatures :

- 40°C to + 55°C

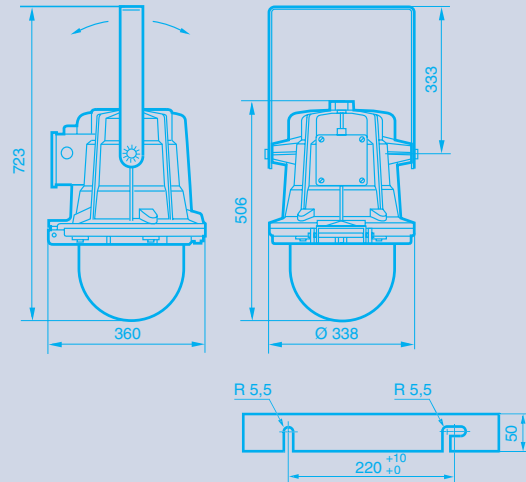
Product features/customer benefits

- Access to the lamp by unscrewing the bezel (IIC version) : **rapid maintenance**
- "e" terminal box : **easy installation and wiring**

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II2G/D
EEx de IIB or IIC	T6-T5-T4-T3-T2	T° = 85°C to 200°C		
IP 66/67	IK 08			

Dimensions (mm) :

With 0950 80

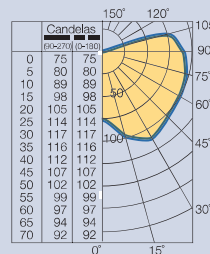


Photometric data (photometry p. G62) polar curves for a 1000 lm output, according to NF C 71-120

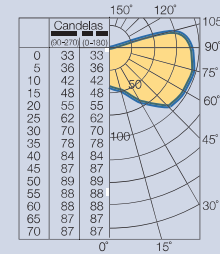
Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

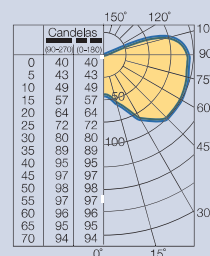
85 W induction
Efficiency 85,9 %
NF C 71-121 : 0,62 J + 0,24 T



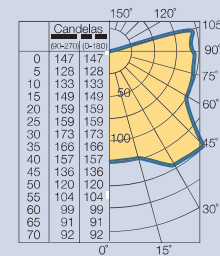
150 W HP sodium
Efficiency 70,6 %
NF C 71-121 : 0,50 J + 0,20 T



250 W HP sodium
Efficiency 79,3 %
NF C 71-121 : 0,56 j + 0,23 T



500 W incandescent
Efficiency 98 %
NF C 71-121 : 0,71 H + 0,28 T



IIB/IIC portable floodlights and handlamps - 12/24 V AC/DC 110/230 V - 50/60 Hz flameproof



0951 50
Portable
floodlight 70W



0947 97
Fluorescent
handlamp 8W



0947 92
incandescent
handlamp

Portable wide beam floodlight

For halogen lamps

- Grey painted marine grade aluminium body and bezel
- Sealed toughened lamp glass
- Threaded flameproof joint
- Plastic covered carrying handle
- One M20 threaded rear cable entry
- Lamp H3 NORMA, OSRAM (PK 22S lampholder) 55 W 12 V - 70 W 24 V
- Operates in any position
- Installed on cradle to allow for all adjustments on site and in any location
- Connection via 2 x 2 x 2.5mm² terminals - Internal earth : 1 x 2.5 mm²
- External earth : 4 mm²

Permissible lamps (supplied)	Supply voltage	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
Halogen 55 W	12 V AC/DC	8	27	0951 49	1
Halogen 70 W	24 V AC/DC	8	27	0951 50	1
Halogen 70 W	230 V - 50/60 Hz (1)	8	27	0951 53	1
Halogen 70 W	110 V - 50/60 Hz (2)	8	27	0951 52	1

(1) With transformer 230/24 V (+6% -10%)

(2) With transformer 110/24 V (+6% -10%)

Portable handlamps

For 8 W fluorescent lamp

- Power supply : 24 V (18 to 30 V) 50/60 Hz.
- 1 cable entry via integrated cable gland fitted with a 8 to 12 mm ring
- Power : approx. 400 mA
- Aluminium reflector clipped to the inside of the zinc-plated steel guard
- Toughened glass tube
- Neoprene handle and suspension hook
- Threaded flameproof joint
- Aluminium end caps, handle and cable entry unit
- Connection via 3 x 2.5 mm² terminals

Permissible lamp (supplied)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
Fluorescent 8 W - 24 V - G5 cap	2.1	6	0947 97	1

For 75 W max. class III incandescent bulb

SELV

- Power supply : 24 V
- Grey painted aluminium alloy body and bezel
- Sealed borosilicate lamp glass
- E27 lampholder
- One M20 threaded cable entry
- White zinc-plated steel protective guard
- Threaded flameproof joint
- Connection to lampholder via 2 x 1 x 2.5 mm² terminals
- Fitted with suspension hook

Permissible lamp (not supplied)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
Incandescent 75 W class III-SELV	2.8	13	0947 92	1

For special options, please consult us

Type	Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II2 G/D	EEx d
55/70 W floodlight : PJ70	T4 - T3	T° = 105 to 127°C		IP65	IK 10	IIC
40/60/75 W handlamp : BLd	T5 - T4 - T3	T° = 95 to 123°C		IP66	IK 08	IIC
8 W handlamp : BLd8	T6	T° = 63°C		IP66/67	IK 08	IIB

TECHNICAL DATA

Zones :

- 1 and 2 and 21- 22

Classification

• According to CENELEC

– Conforming to ATEX 94/9 EC Directive and standards

EN 50014/18 for gas

– Conforming to standards EN 50281-1-1 for dust

– EC 0081 II2 G/D; T = (*) and (**)

• According to IEC

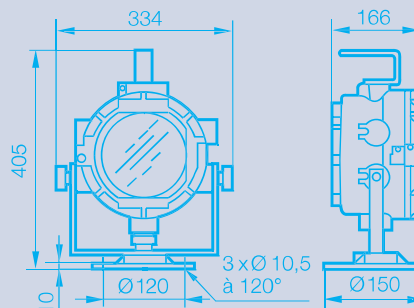
– Conforming to standards 60079-0/1 for gas

– Conforming to standards IEC 61241-1-1 for dust

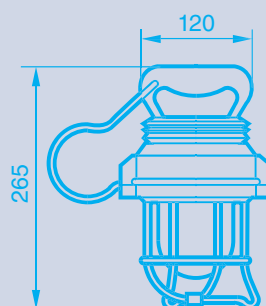
– DIPA 21 TA = (*) and (**)

Dimensions (mm) :

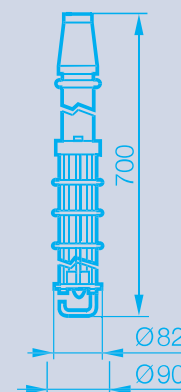
0951 49/50/52/53



0947 92



0947 97



Cat. Nos.	CENELEC	IEC			
0951 49/50/52/53	EEx d IIC – T*	Ex d IIC – T*			
0947 92 (40 W)	EEx d IIC – T**	Ex d IIC – T**			
0947 92 (60 W)	EEx d IIC – T**	Ex d IIC – T**			
0947 92 (75 W)	EEx d IIC – T**	Ex d IIC – T**			
0947 97	EEx d IIB – T6	Ex d IIB – T6			
			Approved type	EC	
0951 49/50/52/53	02 ATEX 6227	Ex 02.020	PJ70	50239	
0947 92	02 ATEX 6164	Ex 02.015	BLd	50240	
0947 97			BLd8	50265	

T*	Position	Power and lamp type	Dust		Gas	
			Surface temp. Ta= + 40°C	Temp. class Ta= + 40°C	Surface temp. Ta= + 40°C	Temp. class Ta= + 40°C
		55 W and 70 W	+ 127°C	T4	T3	T3
		Halogen	+ 120°C	T4	T4	T3
			+ 105°C	T4	T4	T3

Power	Dust Ta surface Ta = 40°C	GAS	Temperature class according to ambient temperature (Ta)					
			Lampglass facing up			Lampglass facing down		
			Ta = + 40°C	Ta = + 55°C	Ta = + 40°C	Ta = + 55°C		
40 W inc.	+ 95°C	T5	+ 71°C	T4	+ 66°C	T5	+ 81°C	T4
60 W inc.	+ 115°C	T4	+ 76°C	T4	+ 73°C	T4	+ 88°C	T4
75 W inc.	+ 123°C	T4	+ 82°C	T3	+ 79°C	T4	+ 94°C	T4

Protection index :

- According to EN 60529 ; IEC 60529
- Mechanical resistance according to EN 50102 (IK code)

0951 49/50/52/53 : IP65 - IK10

0947 92 : IP66 - IK08

0947 97 : IP66/67 - IK08

Anticorrosion treatment and climate protection : see page G50

Operating temperature :

0951 49/50/52/53 : - 40°C to + 55°C

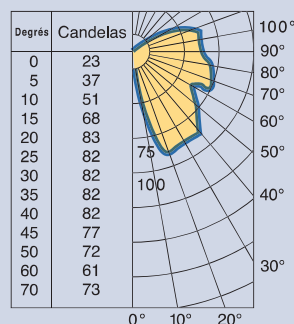
0947 97 : - 20°C to + 40°C

0947 92 : -20°C to + 55°C

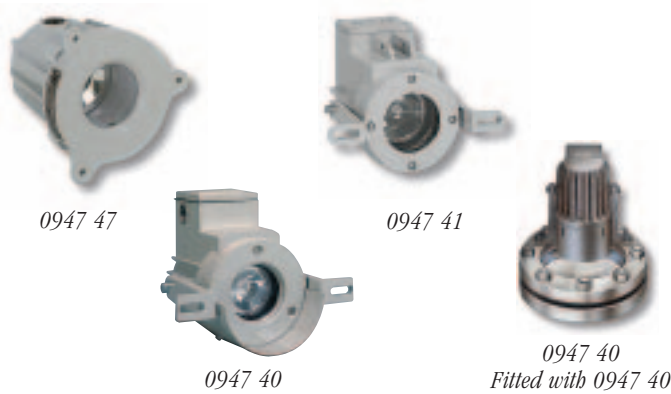
Photometric data (photometry p. G62) polar curves for a 1000 lm out put, according to NF C 71-120:

Luminaire symbol according to NF C 71-121 for Cat. No. 0947 92

--- longitudinal
— transverse



Tank inspection vessel lights, armoured and non-armoured cable flameproof



Incandescent and halogen

- Grey painted marine grade aluminium alloy body and bezel
- Internal aluminium reflector
- Toughened sealed lamp glass
- Operates in any position

For 100 W max. incandescent bulb

- One M20 threaded cable entry, cable gland not supplied
- E27 lampholder with 1 x 2.5 mm² terminals
- Internal earth : 1 x 2.5 mm²
- External earth : 2.5 mm²
- Fixed using 3 integral brackets
- High temperature cable (+ 107°C) to be used, or an indirect cable entry Cat. No. 0957 98

Permissible lamps (not supplied)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
100 W incandescent or 50 W halogen (integrated reflector)	2.9	8.1	0947 47	1

For 20 W and 50 W halogen bulbs

- Power supply : 230 V (+6% / -10%)
- Beam opening angle : 10°
- With incorporated transformer 230/12 V - 50/60 Hz for 12 V halogen lamp
- One threaded cable entry for M20 cable gland (via increased safety "e" compartment). Cable gland not supplied
- G4 lampholder for 20 W, BA 15d for 50 W
- Spigot joint
- Supplied with a set of rocker hinges for mounting on DN 50 to DN 150 bulkhead lamps (according to DIN 28 120)
- Connection via 2.5 mm² terminals
- Internal earth : 1 x 2.5 mm²
- External earth : 4 mm²

Permissible lamps (supplied)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
20 W halogen	2.3	3	;	1
50 W halogen	4	3.6	0947 41	1

Accessories

	Cat. No.	Pack
EEx d IIB aluminium indirect cable entry with high temperature cable 3 x 1.5 mm ² for connecting a standard cable to luminaire Cat. No. 0947 47	0957 98	1

Cable glands (see pages 252-263)

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D	IK08
EEx d IIB or de IIC	T3 or T4	T = 116°C to 200°C		IP66	

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Classification :

• According to CENELEC

- Conforming to ATEX 94/9 EC Directive and standards EN 50014-18-19
- EC 0081 II 2 G for gas
- EC 0081 II 2 D T = (*) for dust

• According to IEC

- Conforming to standards IEC 60079-0/1/7 - DIPA 21 Ta = (*) for dust

Cat. Nos.		CENELEC	IEC
0947 47(1)	40 W max. with or without reflector 60 W max. without reflector	EEx d IIB - T*	Ex d IIB - T*
	100 W max., 60 W with reflector 50 W halogen with reflector	EEx d IIB - T*	Ex d IIB - T*
0947 40		EEx de IIC - T*	
0947 41		EEx de IIC - T*	

(1) With high temperature cable (+107°C) or indirect cable entry

Cat. Nos.	Power and source	Dust surface temp. Ta = +40°C	Temperature classes for Ta = +40°C		Opening time
			Cable temp.	Temp. class	
0947 47	50 W halogen	+149°C	+82°C	T3	2 min
	40 W incandescent	+130°C	/	T4	/
	60 W incandescent + reflector	+137°C	+87°C	T3	/
	100 W incandescent	+195°C	+107°C	T3	/
0947 40	20 W halogen	+116°C	/	T4	15 min
0947 41	50 W halogen	+200°C	/	T3	2 min 30 sec

Approvals :

Cat. Nos.	Type	CENELEC	IEC	CE declaration of conformity
0947 47	HRCd	02 ATEX 6232	Ex 02.028	50241
0947 40	HRC 20WH	03 ATEX 6110	/	50260
0947 41	HRC 50	03 ATEX 6109	/	50661

Conforming to standards EN 50241-1-1 and IEC 6121-1-1
"combustible dust"

Protection index :

- IP66 according to EN 60529 and IEC 60529
- Mechanical resistance IK 08 according to EN 50102

Anticorrosion treatment and climate protection : see page G50

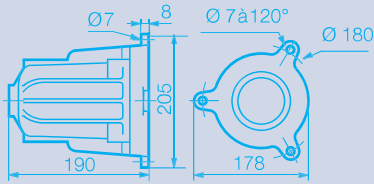
Operating temperature :

- 0947 47 : - 40°C to + 40°C
- 0947 40/41 : - 20°C to + 40°C

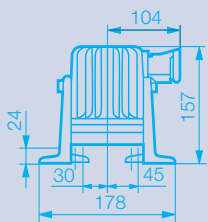
ATX "Safety Plus"

Dimensions (mm) :

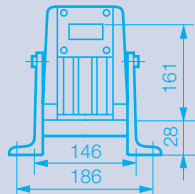
Cat. No. 0947 47



Cat. No. 0947 40



Cat. No. 0947 41

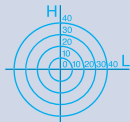


Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120 :

Luminaire symbol according to NF C 71-121

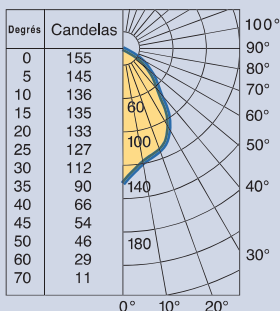
--- longitudinal
— transverse

Isolux curve: Cat. No. : 0947 40/41



Distance cm	Beam L (lux)	Cat. No. 0947 40		Cat. No. 0947 41	
		H (lux)	L (lux)	H (lux)	L (lux)
0	3000	3000	12000	12000	
10	1000	900	2300	2700	
1 m	20	125	75	375	250
	30	-	-	50	50
	40	-	-	-	-
2 m	0	1150	1150	2550	2550
	10	750	750	1550	1800
	20	300	300	600	800
	30	100	100	200	220
	40	50	50	-	-

Cat. No. 0947 47 100 W incandescent



Data sheet available on request

No ingress problems

patented ATX



Earth continuity protected by an inspectable anticorrosion O ring seal, protected against UV and mechanical shocks (damage).

No risk of mistake



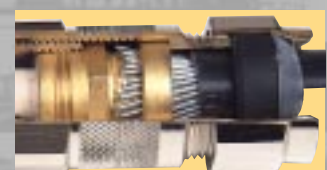
One single clamping ring and one single direction of mounting. Rapide conversion of a cable gland with elastomer seal into a cable gland with filling compound using a compound chamber

Guaranted weatherproof



Safety nut for tightening the weatherproof sheath while inspecting the earth continuity.

No mechanical stress on external cable sheath



gradual tightening on conical ramp protecting the sheath against distortion

A.T.X.®



0947 54 round bulkhead light

Incandescent, fluorescent and mixed 18, 160 and 200 W

- Grey painted marine grade aluminium body and bezel
- Sealed toughened lamp glass
- Threaded flameproof joint
- E27 lampholder
- Operates in any position
- Fixed using 2 integrated lugs
- Connection to lampholder via 2 x 1 x 2.5 mm² terminals
- 2 x 2.5 mm² internal earths
- 1 x 4 mm² external earth
- Three M20 threaded cable entries in "T" formation
- Supplied with two M20 blanking plugs and one M20 cable gland

Catalogue numbers

Permissible lamps (not supplied)	Weight (kg)	Volume (dm ³)	Cat. No.	Pack
200 W incandescent	7.5	23.4	0947 54	1
160 W mixed				
18 W compact fluorescent				

Accessories

	Cat. No.	Pack
Zinc-plated steel protective guard	0950 91	1

For special options, please consult us:

- Other lamp glass colours
- Spare parts (see page 290)
- Cable glands (see pages 252-263)

Part number in bold : fast moving references

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II2 G/D
EEx d IIC	T3 - T4 - T5	T = 90°C to 134°C	IP66	IK08

TECHNICAL DATA

Zones : 1 and 2 and 21-22

Classification :

• According to CENELEC :

- Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18
- EC 0081 II 2 G/D

• According to IEC:

- Conforming to IEC standards 60079-0/1

	0947 54	
	Gas	Dust
CENELEC	II2 G EEx d IIC T(*)	II2 D T (*)
IEC	Ex d IIC T (*)	DIPA 21 TA = (*)

T (*)	Dust	Gas			Opening time	
Power and lamp type	Surface temp	Cable temperature			Temperature class	
	Ta = 40°C	T=40°C	T=50°C	T=55°C	T=40°C T=50°C T=50°C	
18 W fluorescent compact	+ 90°C	/	/	/	T5	10 min
200 W incandescent	+ 115°C	/	+ 84°C	+ 89°C	T4	5 min
160 W mixed	+ 134°C	/	+ 87°C	+ 92°C	T3	10 min

Approvals :

Approved type	CENELEC	IEC	CE declaration of conformity
HBRd	02 ATEX 6163	Ex 02.014	50242

- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

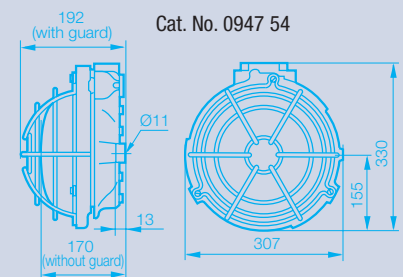
Protection index : IP66 according to EN 60529 and IEC 60529

Impact resistance IK08 according to EN 50102

Operating temperature : - 40°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :

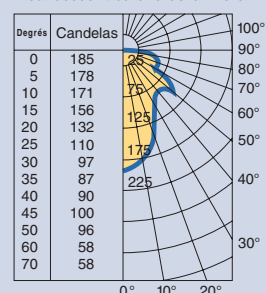


Photometric data (photometry p. G62) polar curves for a 1000 lm out put, according to NF C 71-120

Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

Cat. No. 947 54 with incandescent bulb: 0.68 G + 0.01 T



Data sheet available on request



0947 08 Oval bulkhead light

Incandescent, compact fluorescent

- Grey painted aluminium body and bezel 60 to 100 W
- Sealed toughened lamp glass
- Flanged flameproof joint
- E27 lampholder
- Operates in any position
- Fixed using 2 integrated lugs
- Connection to lampholder via 2 x 1 x 2.5 mm² terminals
- 2 x 2.5 mm² internal earths
- One external earth

60 and 100 W oval for lighting and signalling

- Two M20 threaded through wiring cable entries
- Supplied with one M20 blanking plug
- Cable gland not supplied
- Provide a high temperature cable (106°C) or use indirect cable entry Cat. No. 957 98
- Incandescent lamps (not supplied)
- Philips PLE.T Pro 15 W compact lamps can be used (not supplied)

Catalogue numbers

		Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
100 W	clear	3	9	0947 09	1
60 W	red	3	9	0947 08	1
60 W	green	3	9	0947 12	1

Accessories

	Cat. No.	Pack
EEx d IIB aluminium indirect cable entry with high temperature cable 3 x 1.5 mm ² for connecting a standard cable	0957 98	1
Zinc-plated steel protective guard	0947 70	1
Thermal protective sleeve and terminal block for 2 x 2.5 mm ² terminals for through wire connection	0947 84	10

For special options, please consult us:

- Other lamp glass colours

Spare parts (see page 290)

Cable glands (see pages 252-263)

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II2 G/D
EEx d IIB	T4 or T6	T = 76°C to 119°C	IP66	IK08

TECHNICAL DATA

Zones : 1 and 2 and 21-22

Classification :

• According to CENELEC :

- Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18
- EC 0081 II 2 G/D

• According to IEC :

- Conforming to IEC standards 60079-0/1

	0947 08/09/12	
	Gas	Dust
CENELEC	II2 G EEx d IIB T(**)	II2 D T (**)
IEC	Ex d IIB T (**)	DIPA 21 TA = (**)

T (**)	Dust		Gas	
	Surface temp. = + 40°C	Cable temp	Temp class	Opening time
Power and lamp type				
15 W fluo. compact	+ 76°C	/	T6	/
60 W incandescent	+ 119°C	+ 106°C	T4	10 min
100 W incandescent	+ 119°C	/ 106°C	T4	10 min

Approvals:

Approved type	CENELEC	IEC	CE declaration of conformity
HB0d	02 ATEX 6162	Ex 02.013	50234

- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

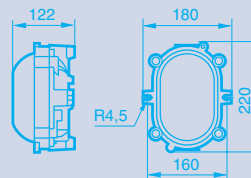
- IP66 according to EN 60529 and IEC 60529
- Impact resistance IK08 according to EN 50102

Operating temperature : - 20°C to + 40°C

Anticorrosion treatment and climate protection : see page G50

Dimensions :

Cat. No. 0947 08/09/12

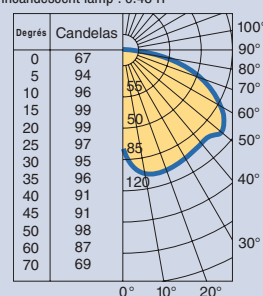


Photometric data (photometry p. G62) polar curves for a 1000 lm out put, according to NF C 71-120

Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

Cat. No. 947 08/09/12 with incandescent lamp : 0.48 H



Data sheet available on request

Cylindrical bulkhead lights for HP sodium lamps 70 W - 230/240V 50 Hz flameproof



0947 17 70W Sodium

Cylindrical for 70 W high pressure sodium lamp

- Compensated power supply 230/240 V 50 Hz ($\pm 10\%$)
- Power factor ≥ 0.9
- E27 lampholder
- Toughened glass sealed tube
- Zamak end caps and cover, anticorrosion treated and painted grey
- Threaded access cover with O ring seal
- Connection to plug-in terminal block via 2 x 3 2.5 mm² terminals
- External earth via bracket : 4 mm²
- Fixed using 2 integrated lugs
- Operates in any position
- Two M20 threaded cable entries
- Supplied with one M20 blanking plug (cable gland not supplied)

Catalogue numbers

Permissible lamps (not supplied)	Weight	Volume	Cat. No.	Pack
70W HP sodium	7.1	33	0947 17	1
Ovoid (for external igniter)				

Fixing accessories

Fixings - set of 2 brackets

	Cat. No.	Pack
Quick one-hand fixing, zinc-plated steel	0948 97	1
316 stainless steel version	0948 89	1
Fixing unit on flat surface, zinc-plated steel	0948 98	1
316 stainless steel version	0948 90	1
With zinc-plated brackets for fixing		
- on 1" 1/2 (Ø 49 mm) or 1" 1/4 (Ø 42 mm) tube	0948 99	1
316 stainless steel version	0948 92	1
- on 2" (Ø 60 mm) tube	0948 91	1
316 stainless steel version	0948 93	1

Reflector

White painted galvanized steel, guard fitted separately	0948 66	1
---	----------------	---

Protective guard

Zinc-plated steel (20 microns), reflector fitted separately	0948 76	1
---	----------------	---

Fall prevention fixing kit (1.20 m stainless steel chain)	0938 19	1
---	----------------	---

Cable glands (see pages 252-263)

Part number in bold : fast moving references

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II2 G/D
EEx d IIC	T4	T = 112°C	IP68	IK09

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18
 - EC 0081 Ex II 2 G : for gas EEx d IIC T4
 - EC 0081 Ex II 2 D T = + 112°C : for dust
- According to IEC:
 - Conforming to standards IEC 60079-0/1 Ex d IIC T4
 - DIPA 21 TA = + 112°C

Approvals :

- Approved type FLd
- CENELEC LCIE 97 ATEX 6012
- IEC LCIE Ex 03.012
- CE declaration of conformity No. 50203
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 612241-1-1 for "combustible dust"
- Conforming to the electronic compatibility (EMC) standard EN 55015

Protection index :

- IP 66/67 according to EN 60529 and IEC 60529
- Mechanical resistance IK09 according to EN 50102

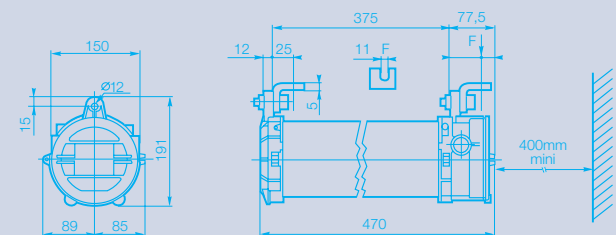
Operating temperature :

- 40°C to + 50°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :

Cat. No. 0947 17

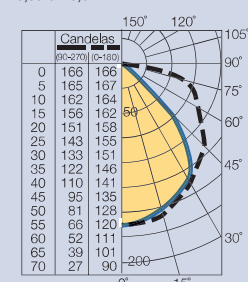


Photometric data (photometry p. G62) polar curves for a 1000 lm output, according to NF C 71-120

Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

70W HP sodium
Efficiency : 59,4 %
0,56 G+ 0,04 T



IIC bulkhead lights 8 W fluorescent and compact fluorescent lamp to 18/20 W 24/48/110V DC - 230/240V AC - 50/60Hz and 198/254 V DC flameproof




0947 18 with Fluo Compact lamp

Bulkhead lights

- Toughened glass sealed tube
- Zamak end caps and cover, anticorrosion treated and painted grey
- Threaded access cover with O ring seal
- Connection to plug-in terminal block via 2 x 3 x 2.5 mm² terminals
- External earth via bracket : 4 mm²
- One E27 lampholder
- Fixed using 2 integrated lugs and brackets. Operates in any position
- Two M20 threaded cable entries
- Supplied with an M20 blanking plug (cable gland not supplied)

For compact fluorescent lamp for E27 lampholder

Permissible lamp (not supplied)		Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
18/20 W max.		7.1	36	0947 18	1

For fluorescent bulb 8 W Ø16 G5 lampholder

- High frequency ballast 230/240 V ± 10% 50/60 Hz power factor > 0.9 or 198/254 V DC
- Converter for 24/48/110 V DC

Supply voltage	Tube supplied	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
24 V DC	1 x 8 W	8.3	31	0947 30	1
48 V DC	1 x 8 W	8.3	31	0947 31	1
110 V DC	1 x 8 W	8.3	31	0947 32	1
230/240 V AC 50/60Hz					
198/254 V DC	1 x 8 W	8.3	31	0947 33	1
230/240 V AC 50/60Hz					
198/254 V DC	2 x 8 W	8.3	31	0947 34	1

Accessories



Reflectors


White painted galvanized steel, guard fitted separately		Cat. No.	Pack
		0948 68	1

Protective guards

Zinc-plated steel (20 microns), reflector fitted separately		Cat. No.	Pack
		0948 72	1

Fixings - set of 2 brackets

Quick one-hand fixing, zinc-plated steel		Cat. No.	Pack
316 stainless steel version		0948 89	1
Fixing unit on flat surface, zinc-plated steel		Cat. No.	Pack
316 stainless steel version		0948 90	1

With zinc-plated brackets for fixing			
- on 1" 1/2 (Ø 49 mm) or 1" 1/4 (Ø 42 mm) tube		0948 99	1
- 316 stainless steel version		0948 92	1
- on 2" (Ø 60 mm) tube		0948 91	1
- 316 stainless steel version		0948 93	1



Part number in bold : fast moving references

Zone 1 & 2 - 21 & 22		ATEX	IEC	EC	II2 G/D
EEx d IIC	T6	T = 85°C	IP68		IK09


TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Classification :

- According to CENELEC
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18
 - EC 0081  II 2 G: for gas EEx d IIC T6
 - EC 0081  II 2 D T = + 85°C : for dust
- According to IEC:
 - Conforming to standards IEC 60079-0/1 Ex d IIC T6
 - DIPA 21 TA = + 85°C

Approvals :

- Approved type FLd
- CENELEC LCIE 97 ATEX 6012
- IEC LCIE Ex 03.012
-  declaration of conformity No. 50203
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 for dust
- Conforming to the electronic compatibility (EMC) standard EN 55015

Protection index :

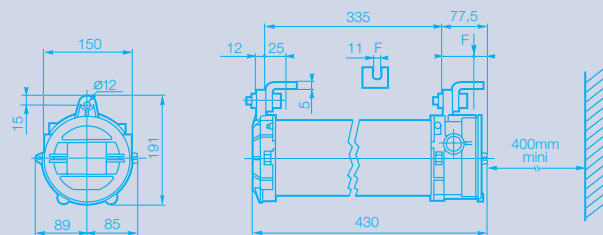
- IP66/67 according to EN 60529 and IEC 60529
- Mechanical resistance IK09 according to EN 50102

Operating temperature :

- 40°C to + 50°C

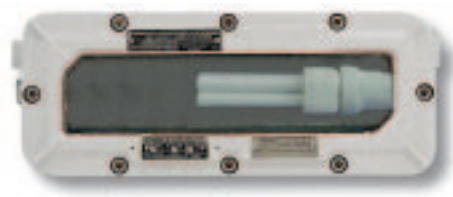
Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :



Data sheet available on request

Rectangular bulkhead lights for compact fluorescent lamps 18/20 W flameproof



0947 49

Rectangular bulkhead for energy-saving compact fluorescent lamp

- Cover: grey painted marine grade aluminium alloy
- Toughened sealed lamp glass
- One E27 lampholder
- Flanged flameproof joint
- Operates in any position
- Connection via 2 x 1 x 4 mm² terminals
- Internal earths 4 mm²
- 1 x 4 mm² external earth
- Fixed using 2 lugs with brackets
- Two M20 threaded cable entries
- Supplied with one M20 blanking plug

Catalogue numbers

Permissible lamp (not supplied)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
18/20 W max. 1200 lumens	5.7	9	0947 49	1

Cable glands (see pages 252-263)

Zone 1 & 2 - 21 & 22		ATEX	IEC	EC	II2 G/D
EEx d IIB	T6	T = 85°C	IP 66	IK09	

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Classification:

- According to CENELEC :
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18
 - EC 0081 Ex II 2 G: for gas EEx d IIB T6
 - EC 0081 Ex II 2 D T = + 85°C : for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1 Ex d IIB T6
 - DIPA 21 TA = + 85°C

Approvals :

- Approved type BRI40
- CENELEC LCIE 03 ATEX 6063X
- IEC LCIE Ex 03.009X
- **CE** declaration of conformity No. 50252
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 for dust

Protection index :

- IP66 according to EN 60529 and IEC 60529
- Mechanical resistance IK09 according to EN 50102

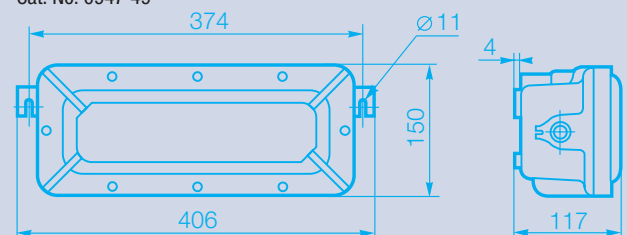
Operating temperature :

- 20°C to + 40°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :

Cat. No. 0947 49



IIC suspended lighting units - 48/110/230/240 V for armoured and non-armoured cable flameproof



0947 36
+ 0950 84
Static beacon
with red globe



0951 26
Rotating
beacon

Beacons for marking and signalling

- Grey painted marine aluminium alloy body and bezel.
- Colourless sealed shock-resistant lamp glass
- Threaded flameproof joint
- Closed by screwing on the bezel
- Suspension via integrated eye bolt, Ø 11 mm hole
- 1 x 2.5 mm² connection to lampholder or 2 x 4 mm connection to terminal block (supplied)
- Two internal earth terminals (4 mm²)
- External earth 4 mm²
- Operates in any position
- Two M20 tapped through wiring cable entries. Supplied with one M20 blanking plug

Static beacon for 100 W max. incandescent lamp

- Supplied without external coloured globe (see accessories)
- E27 lampholder. Lamp not supplied.

	Weight	Volume	Cat. No.	Pack
100 W max.	7.5	30	0947 36	1

Rotating beacon for 40 W incandescent bulb

- Rotation speed: approximately 170 rpm
- Choose polymethacrylate globes from the accessories
- E14 lampholder. Lamp supplied.

Supply voltage	Power	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
48 V ± 10% - 50/60 Hz	1 A	8.5	30	0951 26	1
48 V DC ± 10%	1 A	8.5	30	0951 27	1
110 V ± 10% - 50/60 Hz	0.5 A	8.5	30	0951 28	1
230/240 V ± 10% - 50/60 Hz	0.23 A	8.5	30	0951 29	1

Accessories

Coloured polymethacrylate globe (external fixing)	Cat. No.	Pack
- red	0950 84	1
- green	0950 85	1
- orange	0950 89	1
- transparent	0950 90	1
Protective guard (version without globe only)	0947 73	1

For special options, please consult us :

- Other colours

Spare parts (see page 290)

Cable glands (see pages 252-263)

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	IIG/D
EEx d IIC	T4-T5	T° = 81 or 115°C		IP66 IK08

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

• According to CENELEC :

- Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18
- EC 0081 II 2 G EEx d IIC T = (*) for gas
- EC 0081 II 2 D T = () for dust

• According to IEC :

- Conforming to IEC standards 60079-0/1
- Ex d IIC T = (*) for gas
- DIPA 21 TA = (*) for dust

	Dust	Gas	
T (*) Power lamp type	Surface temp	Temperature class according to ambient temperature (Ta) and cooling time before opening	
Static beacon	Ta = + 40°C	Ta = + 40°C	Ta = + 50°C
100 W inc.	+ 115°C	T4 10 min	T3 15 min
Rotating beacon			
40 W inc.	+ 81°C	T5 5 min	T5 5 min

Approvals :

- Approved type AB14
 - CENELEC LCIE 02 ATEX 6053
 - IEC LCIE Ex 02.004
- declaration of conformity 50231
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 502851-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

- IP66 according to IEC 60529 and EN 60529
- Mechanical resistance IK08 according to EN 50102

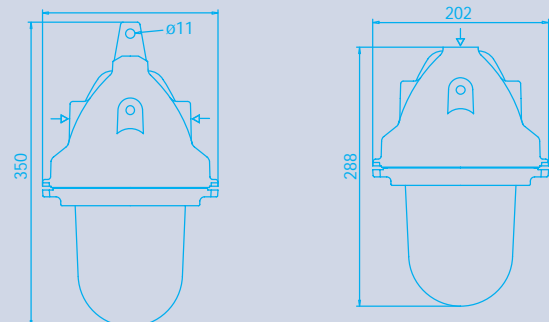
Operating temperature :

- 40°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :

0947 36 - 0951 26 / 27 / 28 / 29





0951 17 + 095084
Static beacon + globe



0951 21
Flashing beacon



0950 84
Red globe

Beacons for marking and signalling

- Colourless sealed shock resistant lamp glass
- Grey marine grade aluminium alloy body and bezel
- Threaded flameproof joint. Closed by screwing on the bezel
- High temperature internal wiring
- Connection in increased safety "e" compartment via two 2 x 6 mm² self-tightening terminals or 6 mm² terminals (lug not supplied) + 1 earth terminal per cable entry (4 mm²)
- External earth 4 mm². Operates in any position
- 2 laterals entries threaded M20
- Supplied with :
 - 1 x M20 cable gland (sealed \varnothing 6.5 to 14.5 mm not armoured)
 - 1 x M20 blanking plug

Static beacon for 100 W max. incandescent lamp

- E27 lampholder. Lamp not supplied.
- Supplied without external coloured globe (see accessories)

	Weight	Volume	Cat. No.	Pack
100 W max.	7.5	30	0951 17	1

Rotating beacon for 40 W incandescent lamp

- Rotation speed : approximately 170 rpm
- E14 lampholder. Lamp supplied.
- Supplied without external coloured globe (see accessories)

Supply voltage	Amp valve	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
48 V \pm 10% - 50/60 Hz	1 A	8.5	30	0951 22	1
48 V DC \pm 10%	1 A	8.5	30	0951 23	1
110 V \pm 10% - 50/60 Hz	0.5 A	8.5	30	0951 24	1
230/240 V \pm 10% - 50/60 Hz	0.23 A	8.5	30	0951 25	1

5 joule flashing beacon

- Red flash tube (supplied)
- Instantaneous power : 50000 cd
- Flash rate : 1 per second
- Service life of tube : 70% luminosity after 8 million flashes
- Operating factor : 100%

Supply voltage	Tolerance	Power	Weight	Volume (Kg)	Cat. No. (dm ³)	Pack
230 V ~ 50/60 Hz	185 V - 255V	55 mA	8.5	30	0951 21	1
110 V ~ 50/60 Hz	90 V - 135V	110 mA	8.5	30	0951 14	1
48 V ~ 50/60 Hz	40 V - 54V	180 mA	8.5	30	0951 15	1
24 V ~ 50/60 Hz	20 V - 30V	220 mA	8.5	30	0951 16	1
110 V =	88 V - 132V	90 mA	8.5	30	0951 18	1
48 V =	40 V - 60V	150 mA	8.5	30	0951 19	1
24 V =	18 V - 35V	230 mA	8.5	30	0951 20	1

Accessories

Coloured polymethacrylate globe (external fixing)

	Cat. No.	Pack
- red	0950 84	1
- green	0950 85	1
- orange	0950 89	1
- transparent	0950 90	1
Protective guard (version without globe only)	0947 73	1
Wall bracket	0950 79	1



M 10 eye bolt

0950 81 1

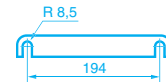


Plate for installation on ceiling

0950 82 1

For special options, please consult us :

- Other colours
- Spare parts (see page 290)
- Cable glands for armoured cable (see pages 252-262)

NEW



TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

• **According to CENELEC :**

- Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18-19
- EC 0081 II 2 G for gas EEx de IIC T (*)
- EC 0081 II 2 D T = () for dust

• **According to IEC :**

- Conforming to IEC standards 60079-0/1/7
- Ex de IIC T (*) for gas
- DIPA 21 TA = (*) for dust

T(*)	Dust	Gas					
Type	Surface temp for Ta=+40°C	Temperature class according to ambient temperature (Ta)					
		Lamp glass pointing downwards and cooling time before opening			Lamp glass pointing upwards		
		Ta = 40°C	Ta = 50°C	Ta = 55°C	Ta = 40°C	Ta = 50°C	Ta = 55°C
5 joule flashing beacon	+100°C	T6 40 mm	T6 40 mm	T6 40 mm	T5 10 mm	T5 10 mm	T4 10 mm
Rotating beacon 40W inc.	+100°C	T5 15 mm	T4 10 mm	T4 10 mm	T5 15 mm	T5 15 mm	T4 10 mm
100 W incandescent	+200°C	T4 10 mm	T3 05 mm	T3 05 mm	T3 05 mm	T3 05 mm	T3 05 mm

Approvals :

- Approved type LT1d
- CENELEC LCIE 02 ATEX 6165
- IEC LCIE Ex 02.017
- declaration of conformity 50246
- Conforming to standards EN 60598-1 and IEC 60598-1 for luminaires
- Conforming to standards EN 50281-1 and IEC 61241-1-1 "combustible dust"
- Conforming to standard EN 55015 concerning electromagnetic compatibility (EMC)

Protection index :

- IP66/67 according to IEC 60529 and EN 60529
- Mechanical resistance IK08 according to EN 50102

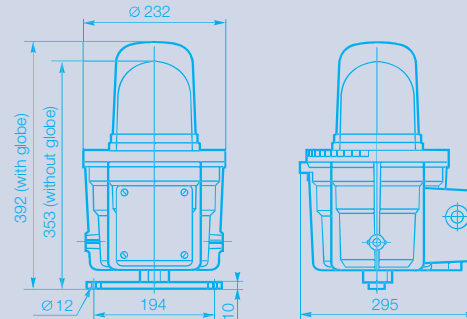
Operating temperature :

- 40°C to + 55°C (static beacon)
- 30°C to + 55°C (flashing beacon)
- 20°C to + 50°C (rotating beacon)

Anticorrosion treatment and climate protection : see page G50

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	IIG/D	IK 08
EEx de IIC	T6-T5-T4	T° = 100°C to 200°C		IP 66/67	

Dimensions (mm) :



Product features/customer benefits

- lamp can be accessed by unscrewing the bezel : **quick maintenance**
- "e" terminal box : **easy and fast installation and wiring**



Flashing beacon 0949 74
+ fixing unit 0948 98



Illuminated indicator bank
0949 89 + fixing unit 0948 89

Illuminated signalling

- Borosilicate glass sealed tube
- Zamak end cap and cover, anticorrosion treated and painted grey
- Threaded access cover with O ring seal
- Connection to plug-in terminal block via 2 x 3 2.5 mm² terminals
- External earth via bracket: 4 mm²
- Fixed using 2 integrated lugs with brackets
- Operates in any position
- Two M20 threaded cable entries
- Supplied with an M20 blanking plug (cable gland not supplied)

15 joule flashing beacon

- Red flash tube supplied
 - Instantaneous power : 150 000 cd
 - Flash rate : 45 per minute
- Operating factor: 10 min stop after 1 hour's operation
 - Service life of tube : 70% luminosity after 8 million flashes

Supply voltage	Amp valve	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
24 V DC (18 - 30 V)	700 mA	6.8	31	0949 71	1
48 V DC (40 - 60 V)	350 mA	6.8	31	0949 72	1
110 V 50/60 Hz (95 - 127 V)	270 mA	6.8	31	0949 73	1
230 V 50/60 Hz (185 - 255 V)	190 mA	6.8	36	0949 74	1




3-stage illuminated indicator bank

- Indicator bank consisting of 3 interchangeable coloured modules (green, yellow and red) with the possibility of coupling 2 modules together for simultaneous lighting
- Static beacons
- For lamps 5/7 W max. with BA15d lamphoder
- Lamps not supplied (choose lamps suitable for the supply voltage)
- Connection to plug-in connector via 2 x 5 2.5 mm² terminals


Permissible lamps for power supply	Lamp holder	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
5/7 W max.	BA15d	6.8	36	0949 89	1

Accessories

Fixings-set of 2 brackets

		Cat. No.	Pack
Quick one-hand fixing, zinc-plated steel		0948 97	1
316 stainless steel version		0948 89	1
fixing unit on flat surface, zinc-plated steel		0948 98	1
316 stainless steel version		0948 90	1
With zinc-plated brackets for fixing			
- on 1" 1/2 (Ø 49 mm) or 1" 1/4 (Ø 42 mm) tube		0948 99	1
316 stainless steel version		0948 92	1
- on 2" (Ø 60 mm) tube		0948 91	1
316 stainless steel version		0948 93	1

Protective guards

Zinc-plated steel (20 microns)		0948 72	1
Fall prevention fixing kit (1.20 m stainless steel chain)		0938 19	1

• Illuminated indicator bank with different number of stages, different combinations

- white and blue
- flashing
- flash discharge
- LED lighting

- Other voltages
- Spare parts (see page 290)
- 5 joule flashing beacon (see page 114)

Cable glands (see pages 252-263)

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- According to CENELEC:
 - Conforming to ATEX - 94/9 EC Directive and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d IIC T5 and T6
 - EC 0081 II 2 D T = + 85°C for dust
- According to IEC:
 - Conforming to standards IEC 60079-0/1 Ex d IIC T6 for gas
 - DIPA 21 TA = + 85°C for dust

Cat. No.	Gas	
	Temp class for Ta ≤ + 40°C	Temp class for Ta > + 40°C
0949 71/72/73/74	T6	T5
0949 89	T6	T6

Approvals :

- Approved type FLd
- CENELEC LCIE 97 ATEX 6012
- IEC LCIE Ex 03.012
- declaration of conformity No. 50203
- Conforming to standards EN 60 598-1 and IEC 60 598-1 for luminaires
- Conforming to standards EN 50 281-1-1 and IEC 61241-1-1 "combustible dust"
- Conforming to standards EN 55 015 and EN 61 547 concerning electromagnetic compatibility (EMC)

Protection index :

- IP66/67 according to EN 60529 and IEC 60529
- Impact resistance IK09 according to EN 50102

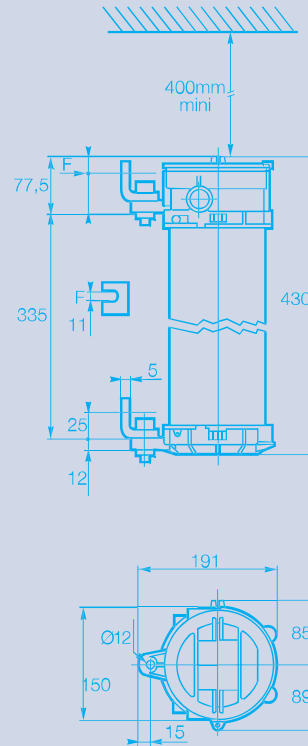
Operating temperature :

- 40°C to + 50°C

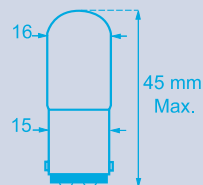
Anticorrosion treatment and climate protection : see page G50

Zone 1 & 2 - 21 & 22		ATEX	IEC	EC	II2 G/D
EEx d IIC	T5 and T6	T = 85°C	IP 68	IK 09	

Dimensions (mm) :



Lamp BA15d :



Product features/customer benefits

- Plug-in terminal blocks : **easy maintenance**
- Guard fitted directly on the unit : **flexibility of installation**
- Threaded access cover with O ring seal : **improved ingress protection**



0951 30 camera boxes 475mm



0950 48 camera box adjustable

475 and 735 mm video camera boxes IIC

- Grey painted aluminium alloy box
- Pyrex glass window
- Threaded flameproof joints
- Compatible with any camera model with the following specifications :
 - Length compatible with one of the two sizes (475 or 735 mm)
 - Max. cross-section of the camera $\leq 127\text{cm}^2$
 - Residual energy of the capacitors (before opening): $\leq 20 \mu\text{J}$
 - Max. power: 14 W at 240 V 50/60 Hz or 12 V....
- Warm up time (see manufacturer's instructions)
- Two M20 threaded cable entries

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
475 mm camera box	14.2	41	0951 30	1
735 mm camera box	18.7	61	0951 31	1

Compact camera boxes IIC

- Two threaded M20 entries at the bottom
- Equipped with a support plate
- 1 toughened glass window, usable $\varnothing 84 \text{ mm}$
- 2 internal earths : M4 screw. External earth: M6 screw
- Max. power 10 W

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
Compact camera box	3.5	13	0931 55	1
Hinged bracket for compact camera	1	2	0931 98	1

Camera box manually adjustable on site and in any direction IIC

- Grey painted aluminium body
- Toughened glass window, usable $\varnothing 155 \text{ mm}$
- Two M20 cable entries, one of which has a blanking plug
- Max. power 70 W (for T6 or T5 requirements, the power must be reduced. Please consult us)

Adjustable camera box	8	27	0950 48	1
-----------------------	---	----	----------------	---

Camera box with globe for motorised IIB camera which can be adjusted on site and in any direction

- Grey painted aluminium body.
- Toughened glass globe int. $\varnothing 205 \text{ mm}$
- One M20 cable entry via the top
- Max. power 85 W

Camera box with globe	19	86.7	0950 75	1
Hinged fixing on ceiling			0950 80	1

For special options, please consult us

- 4 cable entries on request (Cat. No. 0951 30/31)

Cable glands (see pages 252-263)

Part number in bold : fast moving references

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D	IP66
EEx de or EEx d	IIB or IIC	T6 to T3	T =100°C	IK08/09/10	

TECHNICAL DATA

Zones : 1 and 2, and 21- 22

Classification :

- According to CENELEC :

- Conforming to ATEX 94/9 EC Directive and standards EN 50014-18-19
- EC 0081 Ex II 2 G for gas EEx d IIC T (*) for gas except Cat. No. 0950 75: EEx de IIB T (*) for gas
- EC 0081 Ex II 2 D T = (*) for dust

- According to IEC :

- Conforming to standards IEC 60079-0/1/7 Ex d IIC T6 except Cat. No. 0950 75: Ex d IIB T (*)
- DIPA 21 TA = (*)

T (*)temp.	Dust temp. For Ta = + 40°C	Gas	
		Temp. class For Ta \leq + 40°C	Temp. class For Ta > + 40°C
0951 30/31	+ 100°C	T6	T5
0951 48	+ 85°C	T6	
0931 55	+ 85°C	T6	
0950 75	+ 85°C	T6	T5

Approvals :

	0951 30 0951 31	0950 48	0931 55	0950 75
Type	CAM	PJ70	BR2d	LT2d
CENELEC	03 ATEX 6080	02 ATEX 6227	03 ATEX 6062	02 ATEX 6165
IEC	Ex 03.014	Ex 02.020	Ex 03.007	Ex 02.017
Declaration of conformity	50255	50239	50256	50246

Conforming to standards EN 50281-1-1 and IEC 61241-1-1 combustible dust

Protection index :

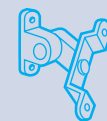
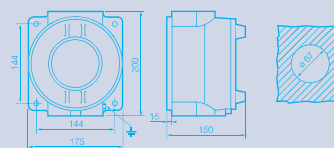
- IP 66 according to EN 60529 and IEC 60529
- Mechanical resistance (IK code) according to EN 50102
- 0951 30/31/48 IK10 - 0931 55 IK09 - 0950 75 IK08

Operating temperature : - 40°C to + 55 °C

Anticorrosion treatment and climate protection : see page G50

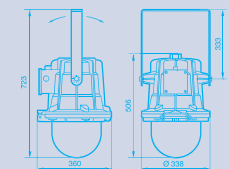
Dimensions (mm) :

0931 55

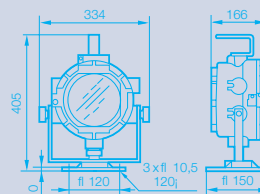


0931 98 Fixing accessory for 0931 55

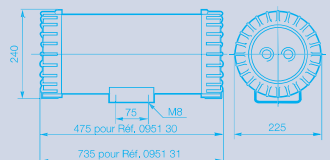
0950 75/80



0950 48



0951 30



Product features/customer benefits

- 4 types of box: covering all types of camera

Data sheet available on request



0951 11 siren IIC



0951 13 klaxon IIB

Siren

- Power supply 50 Hz
- Grey marine grade aluminium alloy box
- Spigot flameproof joint
- Operation :
 - Operating cycle : 15 min maximum
 - Rest cycle : 15 min minimum
- Use a time-delay relay to comply with the above cycle times
- One M20 threaded cable entry at the bottom (cable gland not supplied)
- Internal earth and external earth : M4 screw

Catalogue numbers

Voltage	Sound volume at 2 "m"	Sound frequency (Hz)	Current (A)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
24 V =	104 dB min.	1500	2.6	5.2	13	0951 10	1
220-230 V~	117 dB min.	1500	0.8	5.2	13	0951 11	1

Horn (klaxon)

- 50/60 Hz or DC power supply
- Grey marine grade aluminium alloy box
- Flanged flameproof joint
- Operation:
 - Operating cycle : 5 min max.
 - Rest cycle : 15 min min.
- Use a time-delay relay to comply with the above cycle times
- One M20 threaded cable entry at the bottom (cable gland not supplied)
- M6 crossing-earth terminal

Catalogue numbers

Voltage	Sound volume at 2 "m"	Sound frequency (Hz)	Current (A)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
110 to 250 V~	86 db min.	420	0.13	5.2	13	0951 13	1
24 to 72 V =	86 db min.	420	0.75	5.2	13	0951 08	1
24 to 48 V~	86 dB min.	420	0.75	5.2	13	0951 09	1

Spare parts (see page 290)

Cable glands (see pages 252-263)

For special options, dust zone 22, please consults

Zone 1 & 2	ATEX	IEC	EC	II 2 G	IK10
EEx d IIB or IIC	T5 or T6		IP 55		

TECHNICAL DATA

Zones :

- 1 and 2 and 22

Classification :

- According to CENELEC :
 - Conforming to ATEX 94/9 EC Directive and standards EN 50014-18
 - EC 0081 II 2 G EEx d IIC - T5 (Siren) for gas
 - EC 0081 II 2 G EEx d IIB - T6 (Klaxon) for gas
- According to IEC :
 - Conforming to standards IEC 60079-1 Ex ed IIC T5 (Sirens) for gas
 - Conforming to standards IEC 60079-1 Ex ed IIB T6 (Klaxon) for gas
 - Conforming to electromagnetic compatibility (EMC) standards EN 55015 and EN 61547

Approvals :

	Type	CENELEC	IEC	CE declaration of conformity
Siren	SIR1	03 ATEX 6081	Ex 03.015	50253
Klaxon	KL1X	00 ATEX 6018	Ex.00.013	50216

Protection index :

- IP55 according to EN 60529 and IEC 60529
- Impact resistance IK10 according to EN 50102

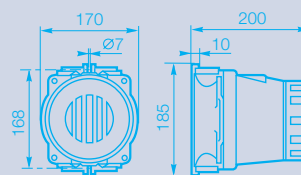
Operating temperature :

- 40°C to + 55°C (Siren)
- 20°C to + 40°C (Klaxon)

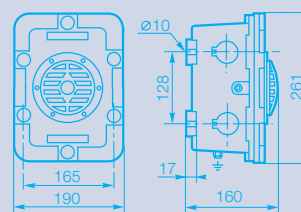
Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :

0951 11



0951 13



ATX and the EGS group

ATX is part of the EGS group, which plays a major part worldwide in all sectors involved in the exploration of gas and oil; EGS manufactures electrical equipment for use in potentially explosive atmospheres as well as industrial electrical equipment. The EGS group incorporates such prestigious brands as Appleton, ATX, Curlee, Easyheat, ETP, McGill, Nee, Nelson, O-Z/Gedney and Sola/Hevi-Duty, and is also part of the Industrial Automation Division of the Emerson Electric group.



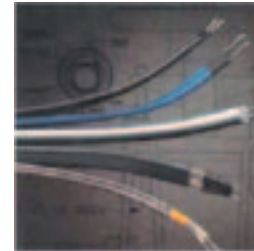
Appleton specialises in the manufacture of connectors and joints for ducted installations, connection boxes, power and lighting sockets designed for industrial applications as well as use in hazardous areas. For more information, visit the website: www.appletonelec.com



Curlee manufactures junction boxes, motor starters, control panels and switchboards designed for use in potentially explosive atmospheres. CURLEE has built its reputation on the quality of its products and on its capacity to produce customised products to extremely tight deadlines. For more information, visit the website: www.egs-curlee.com



Easy Heat manufactures special heating cables designed for multiple applications: underfloor heating, freeze protection system for roofs and pipes, de-icing and snow-clearing system for roads, and temperature-controlled storage. For more information, visit the website: www.easyheat.com



Nelson Heat Trace manufactures all the components needed for heat trace systems: self-regulating heating cables and constant power cables, mineral insulated cables and customised regulation and control systems. For more information, visit the website: www.nelsonheaters.com



O-Z/Gedney specialises in the manufacture of connectors, joints, cable entries for ducted and cabled installations, and connection and control boxes. For more information, visit the website: www.o-zgedney.com



Sola/Hevi-Duty manufactures a complete range of inverters, stabilised power supplies, transformers, and voltage regulators. For more information, visit the website: www.solaheviduty.com











Connection and disconnection: "Safety Plus"

The colour code on all ATX plugs and sockets (located on closing catch) makes connecting and disconnecting them an extremely simple process.

It is therefore virtually impossible to connect plugs incorrectly due to mistaken identification.

Welcome to ATX "Safety Plus".

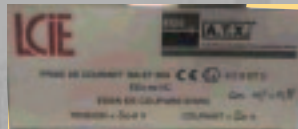
Voltage colour codes:

	20/25V~		20/50V=		40/50V~
	100/130V~		200/250V~		380/415V~
	440/460V~		480/500V~		600/690V~
	50/500V~ (300 to 500 Hz).				

Switch: "Safety Plus"

The range of ATX sockets has a silver grain linear switch, a special alloy which ensures that it is impossible for the contacts to stick (tested by the LCIE).

Another feature of ATX's "Safety Plus".



Extracts from the film of the tests performed at the LCIE French notified body



Plug and mobile socket disconnection visual test :

- 1 **Connected with the power on.**
- 2 **Separation of the non-sticking silver contacts.**
- 3 **Arc off : flameproof chamber remains closed.**
- 4 **Final removal in total safety.**

Short-circuit resistance: 20,000 Amps

While standards requires 10 KA, the range of increased safety sockets and plugs will reach up to 20 KA,

tested by the LCIE. This is yet another feature of ATX's "Safety Plus".

A.T.X.®



Non-sticking silver contacts in a double flameproof chamber

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• EEx “ed” increased safety equipment

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• EEx “d” flameproof equipment

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ELV 16 A sockets and plugs - 20/25V~ - 50/60 Hz

increased safety



Plug 0973 60



Socket 0973 79
with plug 0973 60

20 - 25 V~ wall mounting sockets and plugs

- Polycarbonate socket (high impact resistance) and polyamide cover
- Total disconnection of power by patented double acting safety device which ensures the following when the plug is removed :
 - Automatic and simultaneous disconnection of each phase in one flameproof chamber
 - Disconnection of the pins, with the power off, in a second flameproof chamber
- Can be padlocked in 3 positions (1 Ø 5 mm, length 45 mm):
 - plug inserted with power on, power off and socket closed with plug removed
- Sockets incorporate safety feature designed to accept only ATX plugs for explosive atmospheres (preventing connection of any other plug such as industrial ones)

20-25V ~ 50/60 Hz wall mounting sockets

- 3 x M20 threaded cable entries (1 upper, 2 lower)
- Supplied with: 1 x M20 cable gland Cat. No. 0956 05 (Ø 6.5 to Ø 14.5 mm) and 2 x M20 blanking plugs
- Connection via 2 x 4 mm² terminals. Can be through-wired
- Fitted with 3 linked earth terminals

20 - 25 V	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
2 P	0.6	3.8	0973 79	1
2 P + E	0.6	3.8	0973 68	1
3 P	0.6	3.8	0973 66	1

20 - 25V~ 50/60 Hz plugs

- 1 cable entry via integrated PG16 cable gland (Ø 6.5 mm min., Ø 14.5 max.)
- Connection via 2.5 mm² terminals

20- 25 V~	Weight	Volume	Cat. No.	Pack
2 P	0.2	0.6	0973 60	1
2 P + E	0.2	0.6	0973 88	1
3 P	0.2	0.6	0973 61	1

20 - 25V~ 50/60 Hz mobile sockets

- 1 cable entry via integrated PG16 cable gland (Ø 6.5 mm min., Ø 14.5 max.)
- Connection via 4 mm² terminals

20- 25 V~	Weight	Volume	Cat. No.	Pack
2 P	0.4	1.3	0973 65	1
2 P + E	0.4	1.3	0973 89	1
3 P	0.4	1.3	0973 82	1

Accessories

	Cat. No.	Pack
M20 earth stud	0957 48	1
M20 earth continuity adaptor	0957 43	1

Part number in bold : fast moving references

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
Ex ed IIC	T6 or T5	T = 80°C	IP66	ISC = 20 KA IK10

TECHNICAL DATA

Zones : 1 and 2, and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX 94/9 EC Directive and standards EN 50014-18-19
 - EC 0081 II 2 G for gas EEx ed IIC
 - T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C
 - EC 0081 II 2 D T = + 80°C for dust

According to IEC :

- Conforming to standards IEC 60079-0/1/7 Ex ed IIC
 - T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C
- DIPA 21 TA = + 80°C for dust

Approvals :

- Approved type PCX
- CENELEC LCIE 02 ATEX 6068
- IEC LCIE Ex 02.007
- **CE** declaration of conformity 50228
- Conforming to standards EN 60309.1 and EN 60309.2
 - Resistance to potential short-circuit currents ISC = 20 KA
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

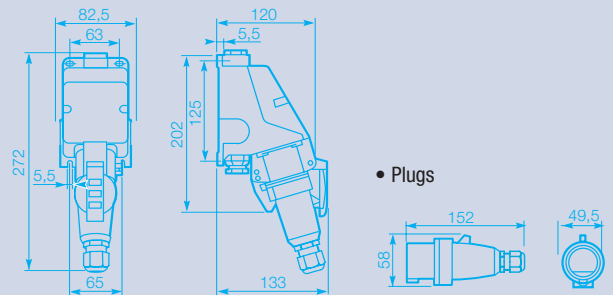
Protection index :

- IP66 according to EN 60529 and IEC 60529 (with or without plug connected)
- Mechanical resistance IK10 according to EN 50102

Operating temperature : - 40°C to + 55°C

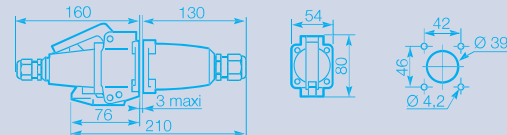
Dimensions (mm) :

- Wall mounting sockets

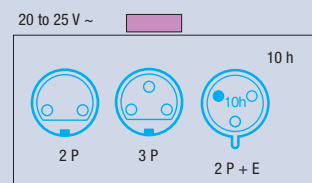


Mobile sockets

Can be mounted on panel 3 mm thick max.



Pin configurations :



Product features/customer benefits

- Integral automatic switch : **simple operation**
- Non-sticking silver contacts : **durability**
- Double flameproof chamber : **safe operation**

ELV 16 A power sockets and plugs - 20-50 V= DC

increased safety



Plug 0973 64



Socket 0973 54

20 - 50 V= wall mounting sockets and plugs

- Polycarbonate socket (high impact resistance) and polyamide cover
- Total disconnection of power by patented double acting safety device which ensures the following when the plug is removed :
 - Automatic and simultaneous disconnection of each phase in one flameproof chamber
 - Disconnection of the pins, with the power off, in a second flameproof chamber
- Can be padlocked in 3 positions (1 padlock \varnothing 5 mm, length 45 mm):
 - plug inserted with power on
 - plug inserted with power off
 - socket closed with plug removed
- Sockets with safety feature designed to accept only ATX plugs for explosive atmospheres (preventing connection of any other plug such as industrial ones)

20 - 50 V= wall mounting socket

- 3 x M20 threaded cable entries (1 upper, 2 lower)
- Supplied with :
 - 1 x M20 cable gland Cat. No. 0956 05 (\varnothing 6.5 to \varnothing 14.5 mm)
 - 2 x M20 blanking plugs
- Connection via 2 x 4 mm² terminals. Can be through-wired
- Fitted with 3 linked earth terminals

20 - 50 V=	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
2 P	0.6	3.8	0973 54	1

20 - 50 V= plug

- 1 cable entry via integrated PG16 cable gland (\varnothing 6.5 mm min., \varnothing 14.5 max.)
- Connection via 2.5 mm² terminal

20 - 50 V=	Weight	Volume	Cat. No.	Pack
2 P	0.2	0.6	0973 64	1

20 - 50 V= mobile socket

- 1 cable entry via integrated PG16 cable gland (\varnothing 6.5 mm min., \varnothing 14.5 max.)
- Connection via 4 mm² terminal

20 - 50 V=	Weight	Volume	Cat. No.	Pack
2 P	0.4	1.3	0973 69	1

Accessories

	Cat. No.	Pack
M20 earth stud	0957 48	1
M20 earth continuity adaptor	0957 43	1

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx ed IIC	T6 or T5	T = 80°C	IP66	ISC = 20 KA
				IK10

TECHNICAL DATA

Zones : 1 and 2, and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX 94/9 EC Directive and standards EN 50014-18-19
 - EC 0081 II 2 G for gas EEx ed IIC
 - T6 for Ta \leq + 40°C T5 for + 40°C < Ta \leq + 55°C
 - EC 0081 II 2 D T = + 80°C for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1/7 Ex ed IIC
 - T6 for Ta \leq + 40°C T5 for + 40°C < Ta \leq + 55°C
 - DIPA 21 TA = + 80°C for dust

Approvals :

- Approved type PCX
- CENELEC LCIE 02 ATEX 6068
- IEC LCIE Ex 02.007
- declaration of conformity 50228
- Conforming to standards EN 60309.1 and EN 60309.2
- Resistance to potential short-circuit currents ISC = 20 KA
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1
- “combustible dust”

Protection index :

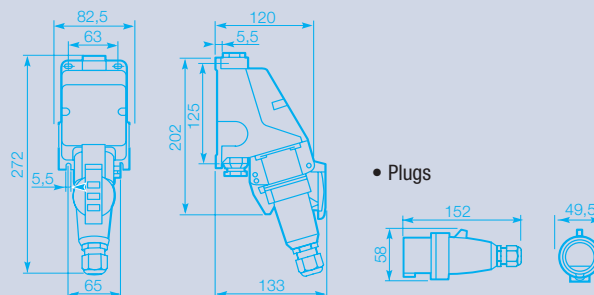
- IP66 according to EN 60529 and IEC 60529 (with or without plug connected)
- Mechanical resistance IK10 according to EN 50102

Operating temperature :

- 40°C to + 55°C

Dimensions (mm) :

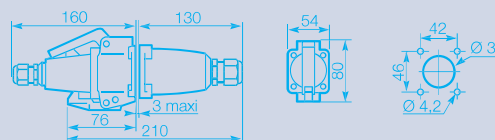
- Wall mounting sockets



• Plugs

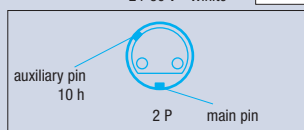
- Mobile sockets

Can be mounted on panel 3 mm thick max.



Pin configurations :

24-50 V =White



Product features/customer benefits

- Integral automatic switch : **simple operation**
- Non-sticking silver contacts : **durability**
- Double flameproof chamber : **safe operation**

Data sheet available on request

Part number in bold : fast moving references

increased safety



Socket 0973 52



Plug 0973 62

40 - 50 V~ wall mounting sockets and plugs

- Polycarbonate socket (high impact resistance) and polyamide cover
- Total disconnection of poles by patented double acting safety device which ensures the following when the plug is removed:
 - Automatic and simultaneous disconnection of each phase in one flameproof chamber
 - Disconnection of the pins, with the power off, in a second flameproof chamber
- Can be padlocked in 3 positions (1 padlock \varnothing 5 mm, length 45 mm) :
 - plug inserted with power on
 - plug inserted with power off
 - socket closed with plug removed
- Sockets with safety feature designed to accept only ATX plugs for explosive atmospheres (preventing connection of any other plug such as industrial ones)

40-50 V ~ 50/60 Hz wall mounting sockets

- 3 x M20 threaded cable entries (1 upper, 2 lower)
- Supplied with 1 x M20 cable gland Cat. No. 0956 05 (\varnothing 6.5 to \varnothing 14.5 mm) and 2 x M20 blanking plugs
- Connection via 2 x 4 mm² terminals. Can be through-wired
- Fitted with 3 linked earth terminals

40 - 50 V~	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
2 P	0.6	3.8	0973 52	1
3 P	0.6	3.8	0973 53	1

40 - 50 V~ 50/60 Hz plugs

- 1 cable entry via integrated PG16 cable gland (\varnothing 6.5 mm min., \varnothing 14.5 max.)
- Connection via 2.5 mm² terminal

40 - 50 V~	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
2 P	0.2	0.6	0973 62	1
3 P	0.2	0.6	0973 63	1

40 - 50 V~ 50/60 Hz mobile sockets

- 1 cable entry via integrated PG16 cable gland (\varnothing 6.5 mm min., \varnothing 14.5 max.)
- Connection via 4 mm² terminal

40 - 50 V~	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
2 P	0.4	1.3	0973 67	1
3 P	0.4	1.3	0973 70	1

Accessories

	Cat. No.	Pack
M20 earth stud	0957 48	1
M20 earth continuity adaptor	0957 43	1

Part number in bold : fast moving references

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
Ex ed IIC	T6 or T5	T = 80°C	IP66	ISC = 20 KA IK10

TECHNICAL DATA

Zones : 1 and 2, and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX 94/9 EC Directive and standards EN 50014-18-19
 - EC 0081 Ex II 2 G for gas Ex ed IIC
T6 for $T_a \leq + 40^\circ\text{C}$ T5 for $+ 40^\circ\text{C} < T_a \leq + 55^\circ\text{C}$
 - EC 0081 Ex II 2 D T = + 80°C for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1/7 Ex ed IIC
T6 for $T_a \leq + 40^\circ\text{C}$ T5 for $+ 40^\circ\text{C} < T_a \leq + 55^\circ\text{C}$
 - DIPA 21 TA = + 80°C for dust

Approvals :

- Approved type PCX
- CENELEC LCIE 02 ATEX 6068
- IEC LCIE Ex 02.007
- CE declaration of conformity 50228
- Conforming to standards EN 60309.1 and EN 60309.2
Resistance to potential short-circuit currents ISC = 20 KA
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1
"combustible dust"

Protection index :

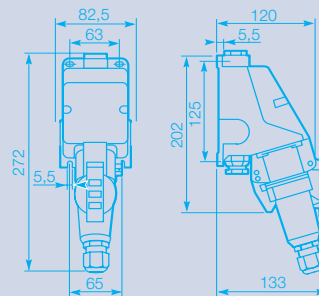
- IP66 according to EN 60529 and IEC 60529 (with or without plug connected)
- Mechanical resistance IK10 according to EN 50102

Operating temperature :

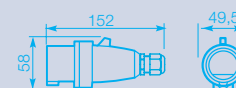
- 40°C to + 55°C

Dimensions (mm) :

- Wall mounting sockets :

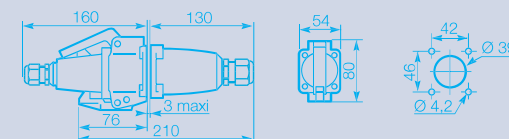


Plugs



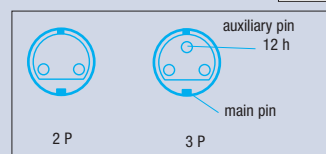
- Mobile sockets :

Can be mounted on panel 3 mm thick max.



Pin configurations :

40 - 50 V ~ 50/60 Hz White



Product features/customer benefits

- Integral automatic switch : **simple operation**
- Non-sticking silver contacts : **durability**
- Double flameproof chamber : **safe operation**

LV 16 A wall mounting sockets - 100 to 500 V - 50/60 Hz or 300/500 Hz increased safety



Wall mounting sockets
0974 19

16 A wall mounting sockets

- Polyester socket and polyamide cover
- Plastic socket (high impact resistance): Cat. No. 0974 19/26
- Total disconnection of power by patented double acting safety device which ensures the following when the plug is removed:
 - Automatic and simultaneous disconnection of each phase in one flameproof chamber
 - Disconnection of the pins, with the power off, in a second flameproof chamber
- Can be padlocked in 3 positions (padlock \varnothing 5 mm, length 45 mm)
 - Plug inserted with power on
 - Plug inserted with power off
 - Socket closed with plug removed
- Sockets with safety feature designed to accept only ATX plugs for explosive atmospheres (preventing connection of any other plug such as industrial ones)

16 A wall mounting sockets

- 3 x M20 threaded cable entries (1 upper, 2 lower)
- Supplied with 1 x M20 cable gland Cat. No. 0956 05 (\varnothing 6.5 to \varnothing 14.5 mm)
 - 2 x M20 blanking plugs
- Connection via 2 x 4 mm² terminals
- Sockets can be through-wired
- Fitted with 3 linked earth terminals

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
100 to 130 V~				
2 P + E	0.6	3.8	0974 19	1
200 to 250 V~				
2 P + E	0.6	3.8	0974 26	1
3 P + E	1.5	4.7	0974 24	1
3 P + N + E	1.6	4.7	0974 25	1
380 to 415 V~				
3 P + E	1.5	4.7	0974 27	1
3 P + N + E	1.6	4.7	0974 28	1
480 to 500 V ~				
3 P + E	1.5	4.7	0974 41	1
50 to 500 V ~ (1)				
3 P + N + E	1.6	4.7	0974 29	1

(1) 300/500 Hz

Accessories

	Cat. No.	Pack
M20 earth stud	0957 48	1
M20 earth continuity adaptor	0957 43	1

For special options, please consult us

- 100 to 130 V (3 P + E and 3 P + N + E) sockets and plugs
- 50 to 500 V - 300/500 Hz other pin configurations

Part number in bold : fast moving references

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx ed IIC	T6 or T5	T = 80°C	IP66	ISC = 20 KA
				IK10

TECHNICAL DATA

Zones : 1 and 2, and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX 94/9 EC Directive and standards EN 50014-18-19
 - EC 0081 II 2 G for gas EEx ed IIC
 - T6 for Ta \leq + 40°C T5 for + 40°C < Ta \leq + 55°C
 - EC 0081 II 2 D T = + 80°C for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1/7 Ex ed IIC
 - T6 for Ta \leq + 40°C T5 for + 40°C < Ta \leq + 55°C
 - DIPA 21 TA = + 80°C for dust

Approvals : Approved type PCX

- CENELEC LCIE 02 ATEX 6068 - IEC LCIE Ex 02.007
- declaration of conformity 50228
- Conforming to standards EN 60309.1 and EN 60309.2
 - Resistance to potential short-circuit currents ISC = 20 KA
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

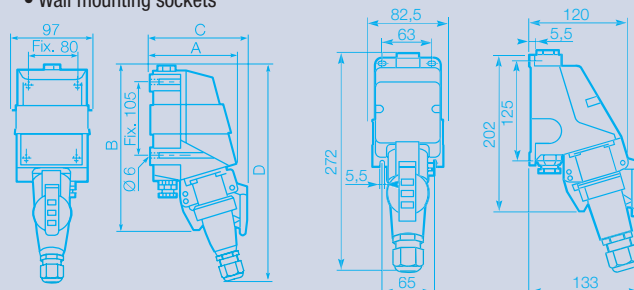
- IP 66 according to EN 60529 and IEC 60529 (with or without plug connected)
- Mechanical resistance IK10 according to EN 50102

Operating temperature :

- 40°C to + 55°C

Dimensions (mm) :

- Wall mounting sockets

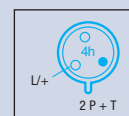


	A	B	C	D
2 P + E	120	202	133	272
3 P + E	140	240	145	310
3 P + N + E	140	240	145	310

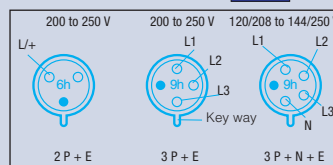
Breaking capacity

AC3 : 4 kW - 220 V 7,5 kW - 380 V
4,3 kW - 240 V 8,2 kW - 415 V

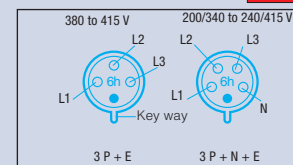
100 à 130 V~ 50/60 Hz Yellow



200 to 250 V~ 50 / 60 Hz Blue



380 to 415 V~ 50 / 60 Hz Red



Product features/customer benefits

- Integral automatic switch : **simple operation**
- Non-sticking silver contacts : **durability**
- Double flameproof chamber : **safe operation**

Data sheet available on request

LV 16 A mobile sockets and plugs - 100 to 500 V - 50/60 Hz or 300/500 Hz increased safety



Plug 0974 35



Mobile socket 0974 00

16 A plugs

- Polyamide body with safety feature for use with ATX mobile sockets and plugs only
- 1 cable entry via integrated PG16 cable gland (Ø 6.5 mm min, Ø 14.5 max.)
- Connection via 2.5 mm² terminal

100 to 130 V ~	Weight	Volume	Cat. No.	Pack
2 P + E	0.2	0.6	0974 30	1
200 to 250 V ~				
2 P + E	0.2	0.6	0974 33	1
3 P + E	0.2	0.6	0974 34	1
3 P + N + E	0.3	1.3	0974 35	1
380 to 415 V ~				
3 P + E	0.2	0.6	0974 37	1
3 P + N + E	0.3	1.3	0974 38	1
480 to 500 V ~				
3 P + E	0.2	0.6	0974 51	1
50 to 500 V ~ (1)				
3 P + N + E	0.2	0,6	0974 39	1

(1) 300/500 Hz

16 A mobile sockets

- Polyamide body. Only for use with the above plugs
- One cable entry via integrated PG16 cable gland (Ø11 mm min., Ø14 max.)
- Connection via 4 mm² terminal

100 to 130 V ~	Weight	Volume	Cat. No.	Pack
2 P + E	0.4	1.3	0974 00	1
200 to 250 V ~				
2 P + E	0.4	1,3	0974 01	1
3 P + E	0.6	4	0974 03	1
3 P + N + E	0.6	4	0974 07	1
380 to 415 V ~				
3 P + E	0.6	4	0974 04	1
3 P + N + E	0.6	4	0974 08	1
480 to 500 V ~				
3 P + E	0.6	4	0974 09	1
50 to 500 V ~ (1)				
3P + N + E	0.6	4	0974 11	1

(1) 300/500 Hz

For special options, please consult us:

- 130 V sockets and plugs (3 P + E and 3 P + N + E)
- 300/500 Hz

Part number in bold : fast moving references

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
Ex ed IIC	T6 or T5	T = 80°C	IP66	ISC = 20 KA IK10

TECHNICAL DATA

Zones : 1 and 2, and 21 - 22

Classification :

- According to CENELEC :

- Conforming to ATEX 94/9 EC Directive and standards EN 50014-18-19
- EC 0081 II 2 G for gas Ex ed IIC
T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C
- EC 0081 II 2 D T = + 80°C for dust

- According to IEC :

- Conforming to standards IEC 60079-0/1/7 Ex ed IIC
T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C
- DIPA 21 TA = + 80°C for dust

Approvals : Approved type PCX

- CENELEC LCIE 02 ATEX 6068 - IEC LCIE Ex 02.007
- **C** declaration of conformity 50228
- Conforming to standards EN 60309.1 and EN 60309.1
Resistance to potential short-circuit currents ISC = 20 KA
- Conforming to standard EN 50281-1-1 and IEC 61241-1-1
"combustible dust"

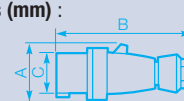
Protection index :

- IP66 according to EN 60529 and IEC 60529 (with or without plug connected)
- Mechanical resistance IK10 according to EN 50102

Operating temperature : - 40°C to + 55°C

Dimensions (mm) :

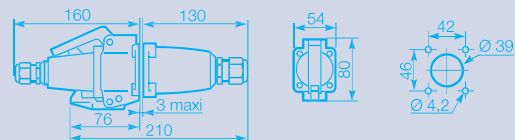
Plugs



	A	B	C
2 P + E	58	152	49,5
3 P + E	66	154	55,5
3P + N + E	73	166	62

Mobile sockets

Can be mounted on panel 3 mm thick max.



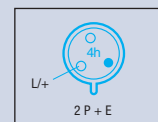
	A	B	C	D	E	F	G	Ø
2 P + E	42	46	54	80	160	130	210	39
3 P + E	56	60	68	90	160	150	230	49,5
3 P + N + E	56	60	68	90	160	150	230	49,5

Breaking capacity

AC3 : 4 kW - 220 V 7,5 kW - 380 V
4,3 kW - 240 V 8,2 kW - 415 V

Pin configurations :

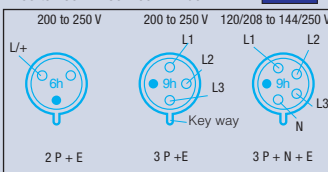
100 to 130V~ 50-60 Hz Yellow



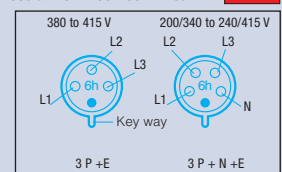
480 to 500V~ 50-60 Hz Black



200 to 250 V~ 50 - 60 Hz Blue



380 à 415V~ 50 - 60 Hz Red



Product features/customer benefits

- Integral automatic switch : **simple operation**
- Non-sticking silver contacts : **durability**
- Double flameproof chamber : **safe operation**

LV 32 A wall mounting sockets - 200 to 500 V - 50/60 Hz

increased safety



Wall mounting sockets
0977 27

32 A wall mounting sockets

- Polyester socket and polyamide cover
- Total disconnection of power by patented double acting safety device which ensures the following when the plug is removed:
 - Automatic and simultaneous disconnection of each phase in one flameproof chamber
 - Disconnection of the pins, with the power off, in a second flameproof chamber
- Can be padlocked in 3 positions (1 padlock Ø5 mm, length 45 mm) :
 - plug inserted with power on
 - plug inserted with power off
 - socket closed with plug removed
- Sockets with safety feature specially designed to accept only ATX plugs for explosive atmospheres (preventing connection of any other plug such as industrial ones)

32 A wall mounting sockets

- 3 x M25 threaded cable entries (1 upper, 2 lower)
- Supplied with:
 - 1 x M25 cable gland Cat. No. 956 06 (Ø8 to Ø18.5 mm)
 - 2 x M25 blanking plugs
- FOR ARMoured CABLE : connection only on top
- Connection via 2 x 6 mm² terminals
- Fitted with 3 linked earth terminals

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
200 to 250 V ~				
2 P + E	1.9	7	0977 23	1
3 P + E	1.9	7	0977 24	1
3 P + N + E	1.9	7	0977 25	1
380 to 415 V ~				
3 P + E	2	7	0977 27	1
3 P + N + E	2	7	0977 28	1
480 to 500 V ~				
3 P + E	2	7	0977 57	1

Accessories

	Cat. No.	Pack
M25 earth stud	0957 49	1
M25 earth continuity adaptor	0957 44	1

For special options, please consult us:

- Other voltages and pin configurations
- Other terminal capacity
- Spare parts (see page 290)

Part number in bold : fast moving references

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx ed IIC	T6 or T5	T = 80°C	IP66	ISC = 20 KA
				IK10

TECHNICAL DATA

Zones : 1 and 2, and 21 - 22

Classification :

- According to CENELEC :

- Conforming to ATEX 94/9 EC Directive and standards EN 50014-18-19
- EC 0081 II 2 G for gas EEx ed IIC
T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C
- EC 0081 II 2 D T = + 80°C for dust

- According to IEC :

- Conforming to standards IEC 60079-0/1/7 Ex ed IIC
T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C
- DIPA 21 TA = + 80°C for dust

Approvals :

- Approved type PCX : - CENELEC LCIE 02 ATEX 6068
- IEC LCIE Ex 02.007
- **CE** declaration of conformity 50228
- Conforming to standards EN 60309.1 and EN 60309.2
Resistance to potential short-circuit currents ISC = 20 KA
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1
"combustible dust"

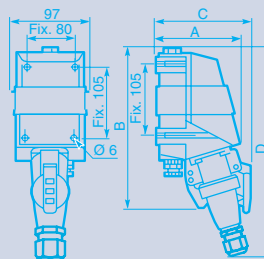
Protection index :

- IP66 according to EN 60529 and IEC 60529 (with or without plug connected)
- Mechanical resistance IK10 according to EN 50102

Operating temperature : - 40°C to + 55°C

Dimensions (mm) :

Wall mounting sockets

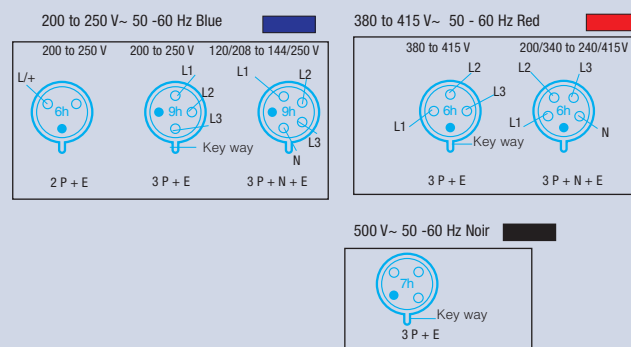


	A	B	C	D
2 P + E	140	275	155	370
3 P + E	140	275	155	370
3 P + N + E	140	275	165	375

Breaking capacity : AC1 : 32 A - 500 V

- AC22 : 11 kW - 220 V
- 12 kW - 240 V
- 19 kW - 380 V
- 20,7 kW - 415 V

Pin configurations :



Product features/customer benefits

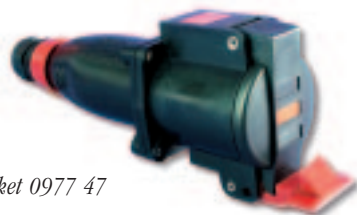
- Integral automatic switch : **simple operation**
- Non-sticking silver contacts : **durability**
- Double flameproof chamber : **safe operation**

Data sheet available on request

increased safety



Plug 0977 37



Mobile socket 0977 47

Plugs

- One cable entry via integrated PG 21 cable gland (Ø8 mm min., Ø18.5 mm max. for 2 P + E and 3 P + E)
- One cable entry via integrated PG 29 cable gland (Ø18 mm min., Ø25 mm max. for 3 P + N + E)
- Polyamide body with safety feature for use of ATX mobile sockets and plugs only
- Connection via 6 mm² terminals

32 A plugs

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
200 to 250 V ~				
2 P + E	0.5	4.0	0977 33	1
3 P + E	0.5	4.0	0977 34	1
3 P + N + E	0.5	4.0	0977 35	1
380 to 415 V ~				
3 P + E	0.4	4.0	0977 37	1
3 P + N + E	0.5	4.0	0977 38	1
480 to 500 V ~				
3 P + E	0.4	4.0	0977 51	1

Mobile sockets

- One cable entry via integrated PG21 cable gland (Ø 8 mm min, Ø 18.5 mm max. for 3 P + E)
- One cable entry via integrated PG 29 cable gland (Ø 18 mm min, Ø 25 mm max. for 3 P + N + E)
- Polyamide body with safety device to accept of the above plugs only
- Connection via 6 mm² terminals

32 A mobile sockets

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
200 to 250 V ~				
2 P + E	0.8	3.2	0977 43	1
3 P + E	0.8	3.2	0977 44	1
3 P + N + E	1.0	4.0	0977 45	1
380 to 415 V ~				
3 P + E	0.8	3.2	0977 47	1
3 P + N + E	1.0	4.0	0977 49	1
480 to 500 V ~				
3 P + E	1.0	4.0	0977 61	1

For special options, please consult us

- Other voltages
- Spare parts (see page 290)

Part number in bold : fast moving references

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx ed IIC	T6 or T5	T = 80°C	IP66	ISC = 20 KA IK 10

TECHNICAL DATA

Zones :

1 and 2, and 21 - 22

Classification :

- According to CENELEC
 - Conforming to ATEX 94/9 EC Directive and standards EN 50014-18-19
 - EC 0081 II 2 G for gas EEx ed IIC
T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C
 - EC 0081 II 2 D T = + 80°C for dust
- According to IEC
 - Conforming to standards IEC 60079-0/1/7 Ex ed IIC
T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C
 - DIPA 21 TA = + 80°C for dust

Approvals:

- Approved type PCX : - CENELEC LCIE 02 ATEX 6068
- IEC LCIE Ex 02.007
- declaration of conformity 50228
- Conforming to standards EN 60309.1 and EN 60309.2
Resistance to potential short-circuit currents ISC = 20 KA
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1
“combustible dust”

Protection index :

- IP66 according to EN 60529 and IEC 60529 (with or without plug connected)
- Mechanical resistance IK10 according to EN 50102

Operating temperature : - 40°C to + 55°C

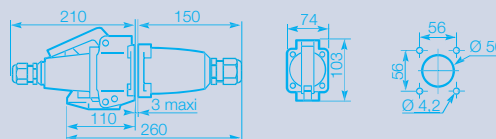
Dimensions (mm) :

Plugs	A	B	C
2 P + E	80	170	67
3 P + E	80	170	67
3 P + N + E	80	195	74



Mobile sockets

Can be mounted on panel 3 mm thick max.

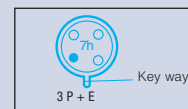


Breaking capacity

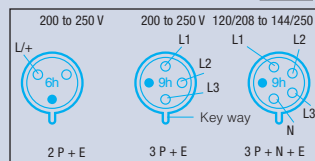
AC1 : 32 A - 500 V

AC22 : 11 kW - 220 V
12 kW - 240 V
19 kW - 380 V
20.7 kW - 415 V

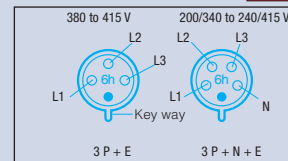
500 V~ 50 -60 Hz Black



200 à 250V~ 50 -60 Hz Blue



380 à 415V~ 50 -60 Hz Red



Product features/customer benefits

- Integral automatic switch : **simple operation**
- Non-sticking silver contacts : **durability**
- Double flameproof chamber : **safe operation**

LV 63 A power sockets and plugs- 200 to 690 V - 50/60 Hz or 60 Hz

increased safety



Plug 0968 85

Wall mounting sockets
0968 45

63 A power sockets and plugs

- Safety device incorporated to accept ATX plugs only
- High impact resistance polyester socket. Polyamide cover and plug
- 3-pole or 4-pole flameproof cut-out switch with auxiliary early break contact (2.5 mm² terminals max.)
- Plug locked when power on. Switch handle can be padlocked in “off” position (4 padlocks)
- Insertion and removal of plug only possible when switch is in open (power off) position

63 A wall mounting sockets

- Connection via 35 mm² terminals
- Supplied with 1 x M50 cable gland and 1 x M25 blanking plug for cable \varnothing 28 to 40 mm

200 to 250 V~	Breaking capacity AC ³ (kw)	Weight	Volume	Cat. No.	Pack
3 P + E	15	8	26	0968 42	1
380 to 415 V~					
3 P + E	22	8	26	0968 44	1
3 P + N + E	22	8	26	0968 45	1
440 to 460 V ~ (1)					
3 P + E	22	8	26	0968 48	1
3 P + N + E	22	8	26	0968 49	1
480 to 500 V ~					
3 P + E	18	8	26	0968 46	1
3 P + N + E	18	8	26	0968 47	1
600 to 690 V ~					
3 P + E	16	8	26	0968 51	1
3 P + N + E	16	8	26	0968 52	1

63 A plugs

200 to 250 V~	Weight	Volume	Cat. No.	Pack
3 P + E	1	7	0968 82	1
380 to 415 V~				
3 P + E	1	7	0968 84	1
3 P + N + E	1	7	0968 85	1
440 to 460 V ~ (1)				
3 P + E	1	7	0968 88	1
3 P + N + E	1	7	0968 89	1
480 to 500 V ~				
3 P + E	1	7	0968 86	1
3 P + N + E	1	7	0968 87	1
600 to 690 V ~				
3 P + E	1	7	0968 91	1
3 P + N + E	1	7	0968 92	1

(1) 60 Hz

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx ed IIC	T6 or T5	T = 75°C	IP66	IK10

TECHNICAL DATA

Zones :

- 1 and 2, and 21- 22

Classification :

- According to CENELEC
 - Conforming to ATEX 94/9 EC Directive and standards EN 50014-18-19
 - EC 0081 II 2 G for gas EEx ed IIC
T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C
 - EC 0081 II 2 D - T = + 75°C for dust
- According to IEC
 - Conforming to standards IEC 60079-0/1/7 Ex ed IIC
T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C
 - DIPA 21 TA = + 75°C for dust

Approvals :

- Approved type PC 63X
- CENELEC LCIE 99 ATEX 6004
- IEC LCIE Ex 99.004
- **C** declaration of conformity 50288
- Conforming to standards EN 60309-1 and EN 60309-2
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”

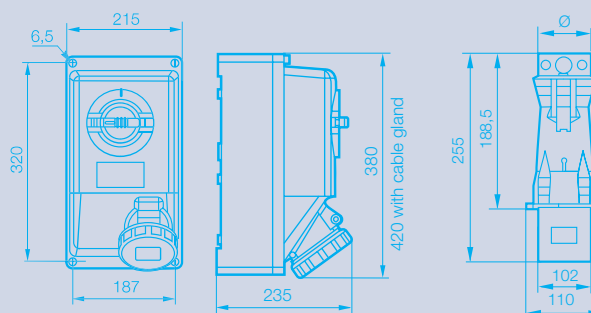
Protection index :

- IP66 according to EN 60529 and IEC 60529
- Impact resistance IK10 according to EN 50102

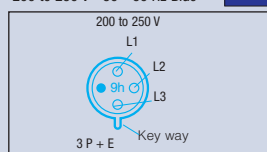
Operating temperature :

- 30°C to + 55°C

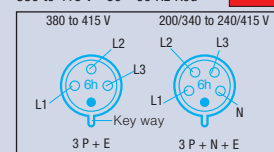
Dimensions (mm) :



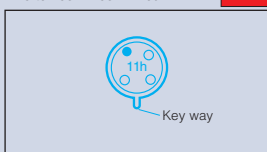
200 to 250 V~ 50 - 60 Hz Blue



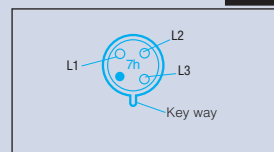
380 to 415 V~ 50 - 60 Hz Red



440 to 460 V~ 60 Hz Red



480 to 500 V~ 50-60 Hz Black



Product features/customer benefits

- Rotary switch handle : **simple operation for high amperage**
- AC3 flameproof switch : **durability, electrical performance**
- Padlockable switch handle (4 padlocks) : **safe operation**

Data sheet available on request

Part number in bold : fast moving references

LV 125 A power sockets and plugs - 380 to 690 V - 50/60 Hz or 60 Hz

increased safety



Socket 0968 67



Plug 0968 77

125 A power socket

- Connection via 120 mm² terminals
- Supplied with 1 x M 63 cable gland and 1 x M25 blanking plug (for cable 36 to 44 mm)
- 316 L stainless steel socket, polyamide cover and plug

380 to 415 V ~	Breaking capacity AC3(kw)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
3 P + E	15	16	70	0968 66	1
3 P + N + E	22	16	70	0968 67	1
440 to 460 V ~ (1)					
3 P + E	15	16	70	0968 58	1
3 P + N + E	22	16	70	0968 59	1
480 to 500 V ~					
3 P + E	15	16	70	0968 60	1
3 P + N + E	22	16	70	0968 61	1
600 to 690 V ~					
3 P + E	15	16	70	0968 62	1
3 P + N + E	22	16	70	0968 63	1

(1) 60 Hz

125 A plugs

380 to 415 V ~	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
3 P + E	1.1	13	0968 76	1
3 P + N + E	1.1	13	0968 77	1
440 to 460 V ~ (1)				
3 P + E	1.1	13	0968 68	1
3 P + N + E	1.1	13	0968 69	1
480 to 500 V ~ (1)				
3 P + E	11	13	0968 70	1
3 P + N + E	11	13	0968 71	1
600 to 690 V ~ (1)				
3 P + E	11	13	0968 72	1
3 P + N + E	11	13	0968 73	1

(1) 60 Hz

For special options, please consult us:

- Version with earth continuity for armoured cable (63A)
- Polyester (63 A) and 316 L stainless steel (125 A) junction boxes with 70 mm² or 90 mm² terminals
- Spare parts (see page 290)

Part number in bold : fast moving references

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
Ex ed IIC	T6 or T5	T = 75°C	IP66	IK10

TECHNICAL DATA

Zones :

- 1 and 2, and 21- 22

Classification :

- According to CENELEC
 - Conforming to ATEX 94/9 EC Directive and standards EN 50014-18-19
 - EC 0081 II 2 G for gas Ex ed IIC
 - T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C
 - EC 0081 II 2 D - T = + 75°C for dust
- According to IEC
 - Conforming to standards IEC 60079-0/1/7 Ex ed IIC
 - T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C
 - DIPA 21 TA = + 75°C for dust

Approvals :

- Approved type PC 125X
- CENELEC LCIE 99 ATEX 6031
- IEC LCIE Ex 99.017
- declaration of conformity 50218
- Conforming to standards EN 60309-1 and EN 60309-2
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1

"combustible dust"

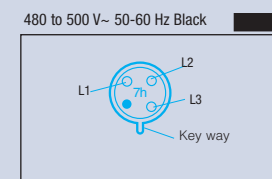
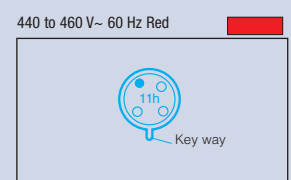
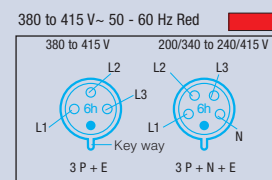
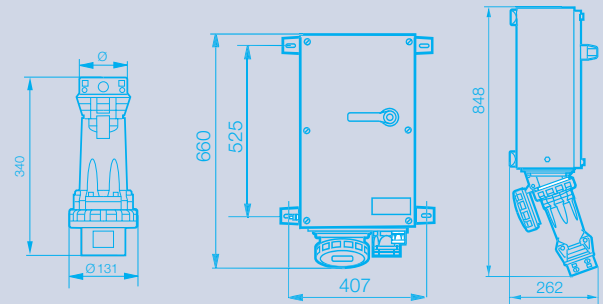
Protection index :

- IP66 according to EN 60529 and IEC 60529
- Impact resistance IK10 according to EN 50102

Operating temperature :

- 30°C to + 55°C

Dimensions (mm) :



Product features/customer benefits

- Rotary handle : **simple operation for high amperage**
- AC3 flameproof switch : **durability, electrical performance**
- Padlockable switch handle (3 padlocks) : **safe operation**



4 socket outlet unit 0963 77



Cable reel 0963 99

Multiple socket outlets (W/O socket)

- Predrilled polyester multiple socket, Flush-mounting unit outlets in wall mounting box

For 2 sockets

- For ELV 16 A flush-mounting sockets Cat. No. 0973 55/83/84/85/86/87 or LV 16 A Cat. No. 0974 10/13
- Supplied with 1 x M20 cable gland (Ø 6.5 to Ø 14.5 mm)
- 1 entry for cable gland M20

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
Multiple socket outlet for 2 sockets	1.3	7	0963 76	1

For 4 sockets

- For 16 A LV flush-mounting sockets: Cat. No. 0974 14/15/17/18/21/23 (p.134)
- 16 A ELV flush mounting sockets can be mounted Cat. No. 0973 55/83/84/85/86/87 or LV 16 A Cat. No. 0974 10/13 (p.134) using adaptor plate Cat. No. 0964 96
- Unused holes can be blanked off using plate Cat. No. 0974 94 and a blanking plug Cat. No. 0983 38
- Connection via 2 x 16 mm² 4-pole + earth distribution block terminals
- Supplied with 1 x M25 cable gland Ø 8 to 18.5 mm and 1 x M25 blanking plug
- entries for cable gland M25

	Weight	Volume	Cat. No.	Pack
Multiple socket outlet for 4 sockets	1.3	7	0963 77	1

Cable reel

- For 16 A ELV 0973 55/83/84/85/86/87 or LV 16 A: Cat. No. 0974 10/13 flush-mounting sockets (P. 134)
- Polyamide reel, capacity 40 m, 2.5 mm² flexible cable
- handle with drum brake

	Weight	Volume	Cat. No.	Pack
Supplied without cable	2.5	32	0963 99	1

Accessories

	Weight	Volume	Cat. No.	Pack
Adaptor plate for installing 16 A ELV socket : Cat. No. 0973 55/83/84/85/86/87 and 16 A LV Cat. No. 0974 10/13 sockets in multiple socket outlet Cat. No. 0963 77	0.5	0.4	0964 96	1
Drilled blanking plate Ø 30 mm for 1 push-button, 1 indicator lamp or 1 blanking plug	0.7	0.4	0974 94	1
Blanking plug for plate Cat. No. 0974 94	0.5	0.8	0983 38	5

For special options, please consult us:

- 32 A sockets in place of 16 A sockets
- Combinations of 16 A, 32 A, ELV sockets
- Number sockets (3, 5, ...)
- Spare parts (see page 290)

Part number in bold : fast moving references

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx ed IIC	T6 or T5	T = 80°C	IP66	ISC = 20 KA
				IK 10

TECHNICAL DATA

Zones :

- 1 and 2 and 21- 22

Classification :

- According to CENELEC
- Conforming to ATEX 94/9 EC Directive and standards EN 50014-18-19
- EC 0081 II 2 G for gas EEx ed IIC T6 or T5
- EC 0081 II 2 D - T = + 80°C for dust
- According to IEC
- Conforming to standards IEC 60079-0/1/7 Ex ed IIC T6 or T5
- DIPA 21 TA = + 80°C for dust

Approvals :

Cat. Nos.	Approved type	CENELEC	IEC	CE declaration of conformity
0963 76	PCe	00 ATEX 6047	Ex 00.017	50221
0963 77	CAe	02 ATEX 6248 X	Ex 02.032x	50235
0963 99	ENR16	03 ATEX 6185	Ex 03.027	50266

Protection index :

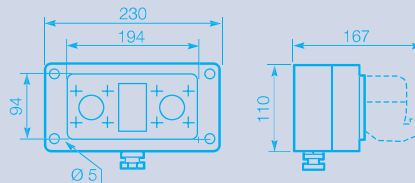
- IP66 according to EN 60529 and IEC 60529
- Mechanical resistance IK10 according to EN 50102

Operating temperature :

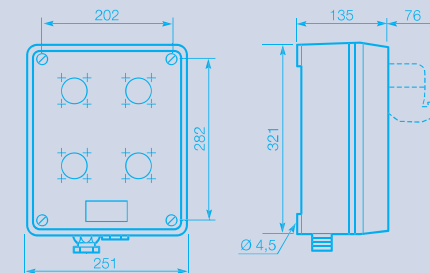
- 40°C to + 55°C

Dimensions (mm) :

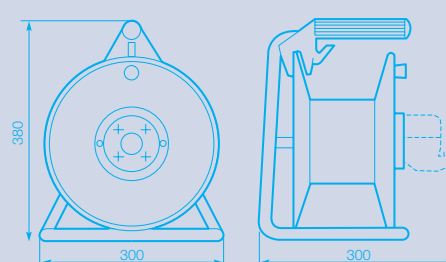
0963 76



0963 77

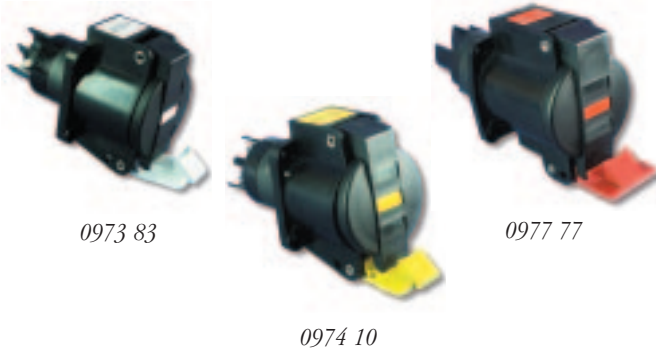


0963 99



Data sheet available on request

16 A and 32 A flush-mounting sockets - 20 to 500 V - 50/60 Hz or 300/500 Hz increased safety



For EEx “e” boxes, enclosure in polyester stainless steel, aluminium, etc.

- For use with ATX plugs only

ELV 16 A flush-mounting sockets

Connection via 2 x 4 mm² terminals

20 to 25 V~	Weight	Volume	Cat. No.	Pack
2 P	0.2	1.3	0973 55	1
2 P + E	0.2	1.3	0973 87	1
3 P	0.2	1.3	0973 85	1
40 to 50 V ~				
2 P	0.2	1.3	0973 83	1
3 P	0.2	1.3	0973 84	1
20 to 50 V				
2 P	0.2	1.3	0973 86	1

16 A flush-mounting sockets - 100 to 500 V 50/60 Hz

100 to 130 V~	Weight	Volume	Cat. No.	Pack
2 P + E	0.2	1.3	0974 10	1
200 to 250 V~				
2 P + E	0.2	1.3	0974 13	1
3 P + E	0.2	1.3	0974 14	1
3 P + N + E	0.2	1.3	0974 15	1
380 to 415 V~				
3 P + E	0.3	1.3	0974 17	1
3 P + N + E	0.3	1.3	0974 18	1
480 to 500 V~				
3 P + E	0.3	1.3	0974 21	1
50 to 500 V~ (1)				
3 P + N + E	0.3	1.3	0974 23	1

(1) 300/500 Hz

32 A flush-mounting socket - 200 to 500 V 50/60 Hz

Connection via 2 x 6 mm² terminals

200 to 250 V~	Weight	Volume	Cat. No.	Pack
2 P + E	0.6	2.7	0977 13	1
3 P + E	0.6	2.7	0977 14	1
3 P + N + E	0.6	2.7	0977 15	1
380 to 415 V~				
3 P + E	0.6	2.7	0977 77	1
3 P + N + E	0.6	2.7	0977 78	1
480 to 500 V~				
3 P + E	0.6	2.7	0977 54	1

For special options, please consult us

- Other voltages and pin configurations
- Rewiring of units on request

Part number in bold : fast moving references

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx ed IIC	T6 or T5	T = 80°C	IP66	ISC = 20 KA IK 10

TECHNICAL DATA

Zones : 1 and 2, and 21 - 22

Classification :

- According to CENELEC
- Conforming to ATEX 94/9 EC Directive and standards EN 50014-18-19
- EC 0081 (Ex) II 2 G for gas EEx ed IIC

T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C

- EC 0081 (Ex) II 2 D - T = 80°C for dust

- According to IEC

- Conforming to standards IEC 60079-0/1/7 Ex ed IIC

T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C

- DIPA 21 TA = 80°C for dust

Approvals :

- Approved type PCX/EN
 - CENELEC LCIE 02 ATEX 0001U - IEC LCIE Ex 02.009U
 - C E declaration of conformity 5C214
 - Resistance to potential short-circuit currents ISC = 20 KA
 - Conforming to standards EN 50281-1-1 and IEC 61241-1-1
- “combustible dust”

Protection index :

- IP66 according to EN 60529 and IEC 60529 (with or without plug connected)
- Mechanical resistance IK10 according to EN 50102

Operating temperature : - 40°C to + 55°C

Dimensions (mm) :

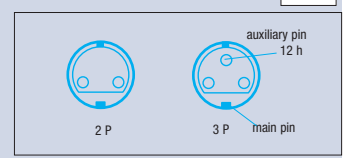
		A	B	C	D	E
SELV 16 A	2 P/2 P + E	54	80	160	76	56
	2 P + E	54	80	160	76	56
LV 16 A	3 P + E	68	90	160	76	56
	3 P + N + E	68	90	160	76	56
LV 32 A	3 P + E	74	103	210	110	60

Pin configuration :

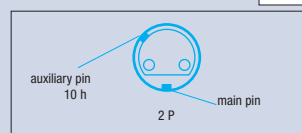
20 to 25 V ~ 50/60 Hz purple



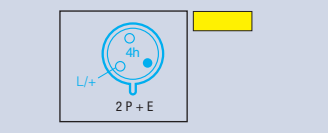
40 - 50 V ~ 50/60 Hz white



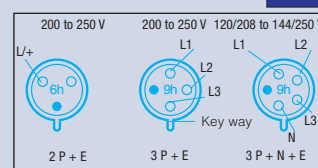
24-50 V = White



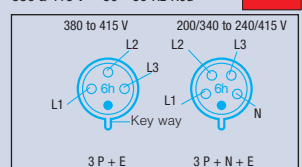
100 to 130 V~ 50-60 Hz Yellow



200 to 250 V~ 50 -60 Hz Blue



380 à 415 V~ 50 - 60 Hz Red



480 to 500V~ 50-60 Hz Black



An assembly workshop at your disposal

With its assembly workshop, ATX places its industrial know-how at your disposal and can produce combined units, on request, to meet your requirements: high precision drilling and machining for a wide range of materials (polyamide, stainless steel,

aluminium, polyester, etc), assembly and internal wiring of electrical equipment are all available on request.

- E-mail : cotation@atx.fr

- Fax : 33 (0) 1 48 63 77 82



Aluminium box



316 L stainless steel box



316 L stainless steel enclosure



Polyester box



Polyester side-mounting enclosure



Polyester door-mounting enclosure

EEx "d" ELV / LV 16 A power sockets and plugs 24/110/220/380 V

flameproof



Socle 0944 06



Fiche 0944 67

16 A plugs and sockets - 50/60 Hz

- Wall mounting aluminium alloy socket. Grey painted
- Flameproof cylindrical spigot joint
- Total disconnection of pole by patented double acting safety device which ensures the following when the plug is removed:
 - Automatic and simultaneous disconnection of each phase in one flameproof chamber
 - Disconnection of pins, with the power off, in a second flameproof chamber
- Cover can be padlocked
(1 padlock, Ø 5 mm, length 45 mm)
- Sockets incorporate safety device, which only accepts specially designed ATX plugs for explosive atmospheres
- Plugs can be used with IEC 60309-2 industrial pin sockets outside explosive atmospheres

16 A surface mounting sockets

- 2 M20 threaded entries (1 at bottom, 1 at top)
- Supplied with 1 x M20 blanking plug
- Connection via 2 x 4 mm² terminals
- Earth terminals: internal and external, by Ø 4 mm screws

20 to 25 V~	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
2 P + E	1.7	5	0944 03	1
100 to 130 V~				
2 P + E	1.7	5	0944 04	1
200 to 250 V~				
2 P + E	1.7	5	0944 06	1
380 to 415 V~				
3 P + E	1.8	5	0944 15	1
3 P + N + E	1.9	5	0944 16	1

16 A plugs

- 1 cable entry via integrated M25 cable gland, sealing diameter :
 - 9 to 12 mm for 2 P + E
 - 12 to 15 mm for 3 P + E
 - 15 to 17 mm for 3 P + N + E
- Connection via 2.5 mm² max terminal

20 to 25 V~	Weight	Volume	Cat. No.	Pack
2 P + E	0.5	4	0944 58	1
100 to 130 V~				
2 P + E	0.5	4	0944 60	1
200 to 250 V~				
2 P + E	0.5	4	0944 63	1
380 - 415 V~				
3 P + E	0.5	4	0944 67	1
3 P + N + E	0.5	4	0944 68	1

Other voltages and pin configurations (please consult us)

Cable glands (see pages 252-263)

Part number in bold : fast moving references

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx d	T6 or T5	T = + 85°C	IP66	IK10

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Classification :

- According to CENELEC
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d IIC
 - T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C
 - EC 0081 II 2 D - T = + 85°C for dust
- According to IEC
 - Conforming to standards IEC 60079-0/1 Ex d IIC
 - T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C
 - DIPA 21 TA = + 85°C for dust

Certification :

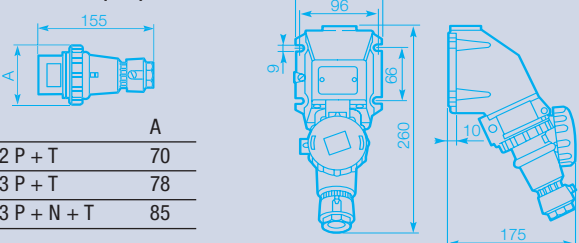
- Approved type PCX16d
- CENELEC LCIE 02 ATEX 6234
- IEC LCIE Ex 02.030
- **CE** declaration of conformity 50243
- Conforming to standards EN and IEC 60309-1 and 60309-2
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 impact resistance according to EN 50102

Operating temperature : – 40°C to + 55°C

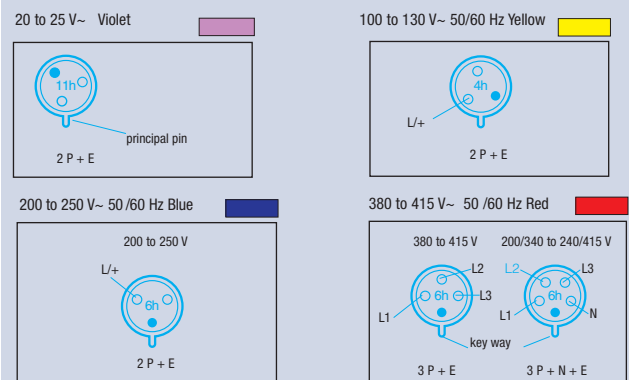
Dimensions (mm) :



Breaking capacity :

AC1 : 16 A - 50 V pour TBT	AC3 : 4 kW - 220 V
: 16 A - 415 V pour BT	4.3 kW - 240 V
	7.5 kW - 380 V
	8.2 kW - 415 V

Pin configurations :



Product features/customer benefits :

- Metal casing : **high mechanical resistance**
- Flap with taper ring : **enhanced ingress protection**
- Built-in switch : **ease of handling**

EEx "d" LV 32 A power sockets and plugs 380/415 V flameproof



Socle 0944 20



Prise 0944 80

32 A power sockets

- Wall-mounting socket with aluminium alloy body and cast-iron front section (painted with polyester powder epoxy)
- Flameproof cylindrical spigot joint
- Mechanical interlocking device ensures that:
 - disconnection takes place within the flameproof chamber before the plug is removed from the socket
 - the plug cannot be removed with the power on
- Aluminium alloy plug with straight handle. Can be used with IEC 60309-2 industrial pin sockets outside explosive atmospheres

Surface mounting socket

- 2 x M25 threaded entries (1 at top, 1 at bottom)
- Supplied with 1 x M25 blanking plug
- Connection via 10 mm² terminals
- Earth terminals: internal and external, by Ø 6 mm screws

	Weight (Kg)	Volume (Dm ³)	Cat. No.	Pack
380-415 V~ 3 P + E	10.4	17	0944 20	1

Plug

- 1 cable entry via integral cable gland, sealed Ø: 17 mm min, 22 mm max
- Connection via 6 mm² terminal

	Weight (Kg)	Volume (Dm ³)	Cat. No.	Pack
380-415 V~ 3 P + E	1.5	4	0944 80	1

Cable glands (see pages 252-263)

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx d IIC	T6 or T5	T = + 85°C	IP66	IK10

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d IIC
T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C
 - EC 0081 II 2 D - T = 85°C for dust
- According to IEC
 - Conforming to standards IEC 60079-0/1 Ex d IIC
T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C
 - DIPA 21 TA = 85°C for dust

Certification :

- Type PCX32d
- CENELEC LCIE 03 ATEX 6134X
- IEC LCIE Ex 03.21X
- **CE** declaration of conformity 50258
- Conforming to standards EN and IEC 60309-1 and 60309-2
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

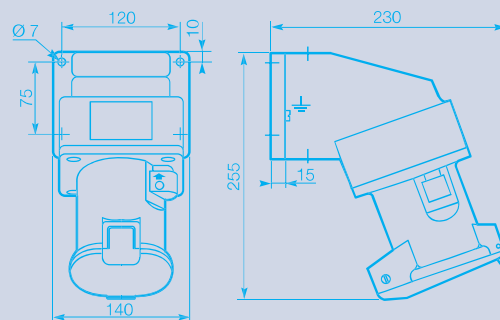
Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

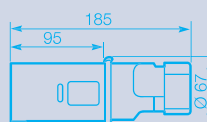
Operating temperature :

- 40°C to + 55°C

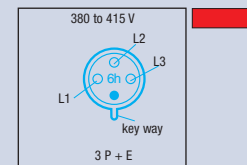
Dimensions (mm) :



Pin configuration :



380 to 415 V~ 50 - 60 Hz Red



Product features/customer benefits

- Activated by rotating the plug : **simple operation**
- Plug cannot be removed with the power on : **safe operation**

Data sheet available on request

Part number in bold : fast moving references

EEx "d" LV 80 and 125 A power sockets and plugs 380/415 V flameproof



Prise 0946 67



Socle 0944 22

80 A and 125 A surface mounting sockets and plugs

- Cast-iron wall-mounting socket, painted grey with anticorrosion protection, fitted with load break isolating switch
- Mechanical interlocking device prevents:
 - the switch closing when the plug is not fully engaged in the socket
 - removal of the plug while the switch is closed
- Switch handle can be padlocked in the "off" position (3 padlocks)

80 A surface mounting socket

- 1 x M32 threaded entry (at the top)
- Connection via Ø 8 mm cable lugs (not supplied)
Internal earth: 35 mm² connection
- External earth: Ø 6 mm screw

380-415 V~ 50/60 Hz	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
3 P + E	44.6	69	0944 22	1

80 A plug

- Aluminium alloy plug with straight handle
- 1 entry via cable gland with integrated expansion cone separator, sealed Ø: 18 mm min, 28 mm max
- Connection via 16 mm² terminal

380-415 V~ 50/60 Hz	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
3 P + E	3.4	6	0946 67	1

125 A surface mounting socket

- 1 x M50 threaded entry (at the top)
- Connection via Ø 8 mm ring terminals (not supplied)
- Internal earth: 35 mm² connection
- External earth: Ø 6 mm screw

380-415 V~ 50/60 Hz	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
3 P + E	47	69	0944 24	1

125 A plug

- 1 cable entry via cable gland with integrated expansion cone separator, sealed Ø: 30 mm min, 36 mm max
- Connection via 35 mm² terminal

380-415 V~ 50/60 Hz	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
3 P + E	5.9	7	0946 93	1

For special options, please consult us

- Cable entry at bottom for 125 A
- Spare parts (see page 290)

Cable glands (see pages 252-263)

Part number in bold : fast moving references

Zone 1 & 2	ATEX	IEC	EC	II 2 G
EEx d IIB	T6 (80 A) T5 (125 A)		IP55	IK10

TECHNICAL DATA

Zones :

- 1 and 2

Classification :

- According to CENELEC
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d IIB T6 (80 A), T5 (125 A)
- According to IEC
 - Conforming to standards IEC 60079-0/1 Ex d IIB T6 (80 A), T5 (125 A)

Certification :

Cat. Nos.	Approved type	CENELEC	IEC	EC declaration of conformity
0944 22				
0946 67	PCX 80d	03 ATEX 6149X	Ex 03.024X	50262
0944 24				
0946 93	PCX 125d	03 ATEX 6148X	Ex 03.023X	50263

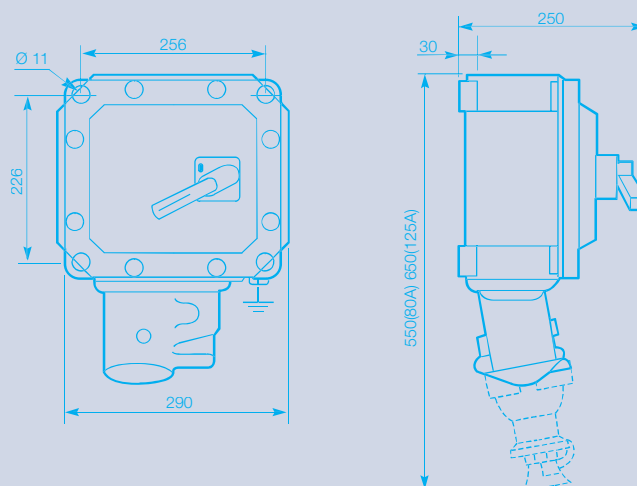
- Conforming to standards EN 60309-1 and IEC 60309-1

Protection index :

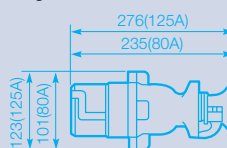
- IP55 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature : - 40°C to + 55°C

Dimensions (mm) :



Plugs



Breaking capacities

AC1 : 80 A : 380 V
125 A : 380 V
AC2/AC3 : 80 A : 40 kW - 380 V
125 A : 63 kW - 380 V

Product features/customer benefits :

- Activated by padlockable rotary switch handle : **simple operation**
- Plug cannot be removed with the power on : **safe operation**

Machining centres at your service

ATX places its industrial expertise at your service, providing extremely precise drilling and machining, as well as mounting and internal wiring of electrical equipment to create flameproof control stations and

enclosures to your own specifications. Quotation on request via ATX distributors and agents.

- Fax : + 33 (0) 1 48 63 77 82

- E-mail : cotation@atx.fr



Customized enclosures



IIB aluminium enclosure equipped with four 3P + E sockets 380/415 V



IIC aluminium enclosure equipped with one 3P+E socket 380/415 V and one ELV 2P+E socket 20/25 V

All the sockets you need

To meet all your installation requirements, ATX offers a complete range of Extra Low Voltage (ELV) and Low Voltage 16 and 32 A flush-mounting sockets in 24 V, 110 V, 220 V, 380 V, 500 V versions.



IIC aluminium enclosure equipped with one 3P + E socket 380/415 V and one ELV 2P + E socket 20/25 V

Quotation on request



Our technical department can provide quotations on request for combined units in all the available materials, via ATX distributors and agents.

E-mail : Cotation@atx.fr

Fax : + 33 (0) 1 48 63 77 82

A.T.X.®

16 and 32 A LV flush-mounting sockets for pre-drilled enclosure flameproof



Flush-mounting socket 0944 25



Drilled box 0944 33

16 A flush-mounting socket - 50/60 Hz

- Painted aluminium alloy socket
- Flameproof cylindrical spigot joint
- Total disconnection of poles by patented double acting safety device, which ensures the following when plug is removed:
 - Automatic and simultaneous disconnection of each phase in one flameproof chamber
 - Disconnection of the pins with the power off in a second flameproof chamber
- Cover can be padlocked (1 padlock, capacity Ø 5 mm, length 45 mm)
- Sockets incorporate safety feature, which only accepts specially designed ATX plugs for explosive atmospheres

Catalogue numbers

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
20 to 25 V~ 2 P + E	1.7	5	0944 25	1
100 to 130 V~ 2 P + E	1.7	5	0944 26	1
200 to 250 V~ 2 P + E	1.7	5	0944 27	1
380 to 415 V~ 3 P + E	1.8	5	0944 28	1
3 P + N + E	1.9	5	0944 29	1

32 A flush-mounting socket

- Painted cast iron socket
- Flameproof cylindrical spigot joint
- Mechanical interlocking device ensures that :
 - disconnection takes place within the flameproof chamber before the plug is removed from the socket
 - the plug cannot be removed with the power on
- Sockets incorporate safety feature, which only accepts specially designed ATX plugs for explosive atmospheres

	Weight	Volume	Cat. No.	Pack
380 to 415 V~ 3 P + E	10.4	17	0944 30	1

EEX "d" pre-drilled enclosure for 16 and 32 A flush-mounting socket

- Pre-drilled type CF1D IIC accepting 16 and 32 A flush-mounting sockets

	Weight	Volume	Cat. No.	Pack
Enclosure for two 16 A sockets	10.4	17	0944 32	1
Enclosure for one 16 and one 32 A socket	10.4	17	0944 33	1

For special option, please consult us:

- Other type of machining for larger or smaller quantity

Part number in bold : fast moving references

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d IIC
 - T6 for $T_a \leq +40^\circ\text{C}$ T5 for $+40^\circ\text{C} \leq T_a \leq +55^\circ\text{C}$
 - EC 0081 II 2 D - T = + 85°C for dust
- According to IEC
 - Conforming to standards IEC 60079-0/1 Ex d IIC
 - T6 for $T_a \leq +40^\circ\text{C}$ T5 for $+40^\circ\text{C} \leq T_a \leq +55^\circ\text{C}$
 - DIPA 21 $T_a = +85^\circ\text{C}$ for dust

Certification :

Cat. Nos.	Type	CENELEC	IEC	EC declaration of conformity
0944 XX	PCX d/EN	03 ATEX 0022U	Ex 03.029U	5C227

- Conforming to standards EN 60309-1 and IEC 60309-2
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

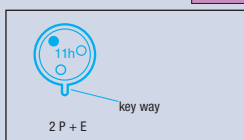
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

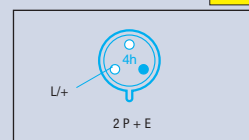
- 40°C to + 55°C

Pin configurations :

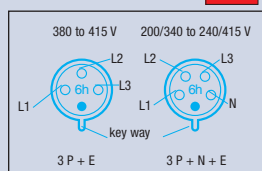
20 to 25 V~ Violet



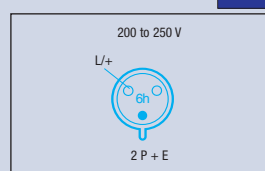
100 to 130 V~ 50/60 Hz Yellow



380 to 415 V~ 50 /60 Hz Red



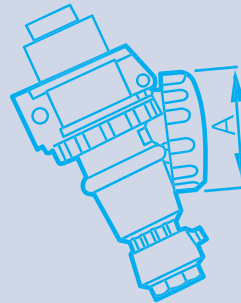
200 to 250 V~ 50 /60 Hz Blue



Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx d II C	T6 or T5	T = + 85°C	IP66	IK10

Dimensions (mm) :

Socket and plug 16 A

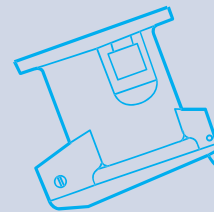
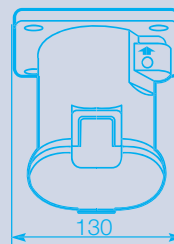


	A
2 P + E	70
3 P + E	78
3 P + N + E	85

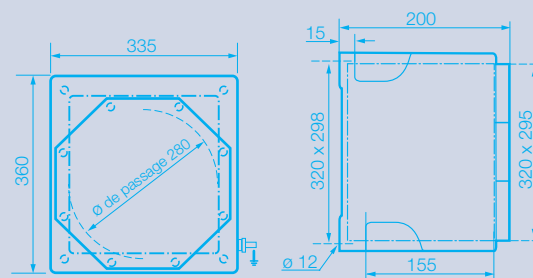
Breaking capacity :

AC1 : 16 A - 50 V pour TBT	AC3 : 4 kW - 220 V
: 16 A - 415 V pour BT	4.3 kW - 240 V
	7.5 kW - 380 V
	8.2 kW - 415 V

0944 30



0944 32/33



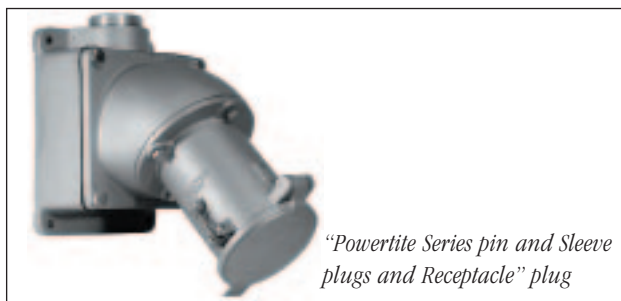
Product features/customer benefits :

- Metal casing : **high mechanical resistance**
- Built-in switch : **ease of handling**

Plugs and Receptacles

The Appleton catalogue contains a complete range of sockets and plugs certified to North American standards (NEC and CEC), designed for industrial applications as well as installations in potentially explosive atmospheres.

For more information, contact your local representative or visit the website: www.appletonelec.com



"Powertite Series pin and Sleeve plug and Receptacle" plug

- Conformity with standards  and CSA

Certification:

NEMA 4X (30, 60, 100, 200 A)

Materials:

- Socket: Painted aluminium
- Insulation: Reinforced fibreglass polyester
- Contacts: Copper or brass

Electrical characteristics:

- Current: 30-400 A
- Voltage: Up to 600 V
- Frequency: 50-400 Hz
- Single-phase or three-phase


Technical characteristics:

- The plugs are equipped with connectors with a wide clamping range
- The plugs can also be mounted on sockets intended for use in hazardous areas

For further information, refer to section D in the Appleton catalogue



"U-Line series Switched Plug and Receptacle" plug

- Conformity with standards 

Certification:

Class I, Div. 1 & 2, Groups B, C & D

Class II, Div. 1 & 2, Groups F & G

Class III

NEMA 3, 3R, 7BCD, 9F

Materials:

- Socket: Painted aluminium
- Insulation: Reinforced fibreglass polyester

Electrical characteristics:

- 125 V, 15 A (NEMA 5-15R)
- 125 V, 20 A (NEMA 5-20R)
- 250 V, 20 A (NEMA 6-20R)
- 1 horsepower
- Single-phase + earth

Technical characteristics:

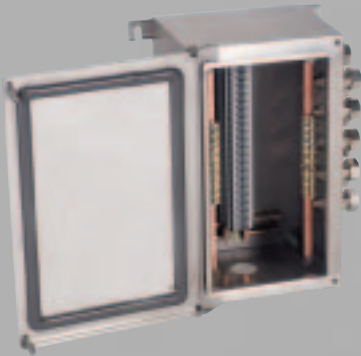
- Switched on by rotating the plug
- Impossible to remove the plug with the power on
- Available with RCBO

For further information, refer to section L in the Appleton catalogue

A complete and practical range

ATX offers a complete range of IP66 boxes and enclosures with an excellent corrosion resistance

in temperatures ranging from - 40°C to + 70°C.



Instrumentation
EEx "e" and EEx "i"



Junction
EEx "e" and EEx "i"

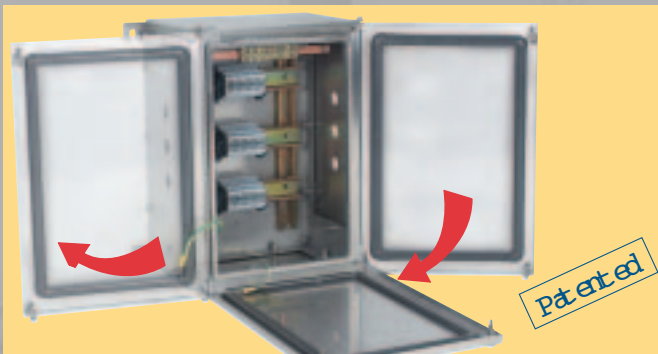


Medium voltage 10 kV



EEx "ed"
panel

Many installation benefits



Reversible door, opens to 210° top/bottom left/right in 30 seconds by means of removable hinges that can be adapted to all positions.



Removable padlock device



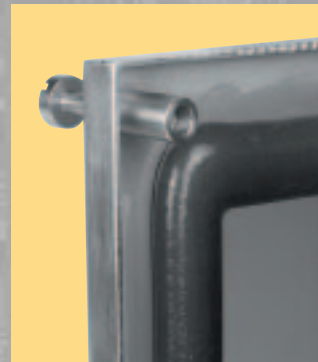
316 L stainless steel captive screws



Reversible antivibration mounting brackets on the top, bottom or side positions.



M8 feedthrough earth



Polyurethane seal



Gland plate with neoprene seal

A.T.X.®

316 L stainless steel flexible range of boxes and enclosures

CONTENTS

• 316 L stainless steel enclosures and control panels, depth 150 to 300 mm	146
• 316 L stainless steel undrilled junction boxes	150
• 316 L stainless steel pre-drilled instrumentation boxes	153
• Selection criteria and technical data	154
– Dimensions of enclosures and boxes	155
– Number of terminals physically permissible	157
– Number of possible cable entries	158
– Permissible power	160
– Selection chart for accessories	164
• EGS group : Sola Hevi Duty transformers	167
• Spare parts	290
• Certificates	292
• ATX guide	302

316 L stainless steel undrilled enclosures and control panels, depth 200 mm increased safety



0970 74



0970 23



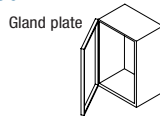
0970 33

Enclosure depth 200 mm

- Supplied with mounting brackets and feedthrough earth (M8 316 L stainless steel)
- Supplied without back plate, rail, chassis or padlock
- Ready for drilling, mounting and wiring in a workshop or on site with strict adherence to the mounting instructions and technical specifications (number of terminals, power dissipation, number of cable glands, etc.)

Enclosures without gland plates

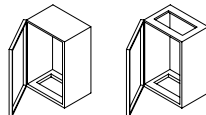
- Drilling on request: please consult us



External dimensions Height/Width/Depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
220 x 260 x 150	5.00	8.60	0970 03	1
220 x 370 x 200	8.50	16.28	0970 10	1
260 x 370 x 200	9.00	19.24	0970 25	1
370 x 260 x 200	9.00	19.24	0970 20	1
370 x 370 x 200	13.00	27.38	0970 30	1
370 x 560 x 200	19.00	41.44	0970 45	1
370 x 750 x 200	24.00	55.50	0970 55	1
560 x 370 x 200	19.00	41.44	0970 40	1
560 x 560 x 200	28.00	62.72	0970 60	1
560 x 750 x 200	33.00	84.00	0970 75	1
750 x 370 x 200	24.00	55.50	0970 50	1
750 x 560 x 200	33.00	84.00	0970 70	1

Enclosures with one or two gland plates

- 1 plate : bottom
- 2 plates : top and bottom

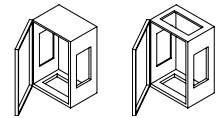


External dimensions Height/Width/Depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Cat. No.	Pack
220 x 260 x 150	5.00	8.60	0970 06	0970 04	1
220 x 370 x 200	7.40	16.28	0970 11	0970 12	1
260 x 370 x 200	8.04	19.24	0970 26	0970 27	1
370 x 260 x 200	7.60	19.24	0970 21	0970 22	1
370 x 370 x 200	11.52	27.38	0970 31	0970 32	1
370 x 560 x 200	17.72	41.44	0970 46	0970 47	1
370 x 750 x 200	22.40	55.50	0970 56	0970 57	1
560 x 370 x 200	16.64	41.44	0970 41	0970 42	1
560 x 560 x 200	25.80	62.72	0970 61	0970 62	1
560 x 750 x 200	30.80	84.00	0970 76	0970 77	1
750 x 370 x 200	22.52	55.50	0970 51	0970 52	1
750 x 560 x 200	30.04	84.00	0970 71	0970 72	1

Part number in bold : fast moving references

Enclosures with 3 or 4 gland plates

- 3 plates: bottom and sides
- 4 plates : all faces



External dimensions Height/Width/Depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Cat. No.	Pack
220 x 260 x 150	5.00	8.60	0970 07	0970 05	1
220 x 370 x 200	8.50	16.28	0970 13	0970 14	1
260 x 370 x 200	9.48	19.24	0970 28	0970 29	1
370 x 260 x 200	8.60	19.24	0970 23	0970 24	1
370 x 370 x 200	12.92	27.38	0970 33	0970 34	1
370 x 560 x 200	19.92	41.44	0970 48	0970 49	1
370 x 750 x 200	25.20	55.50	0970 58	0970 59	1
560 x 370 x 200	17.92	41.44	0970 43	0970 44	1
560 x 560 x 200	28.00	62.72	0970 63	0970 64	1
560 x 750 x 200	33.76	84.00	0970 78	0970 79	1
750 x 370 x 200	23.96	55.50	0970 53	0970 54	1
750 x 560 x 200	32.25	84.00	0970 73	0970 74	1

Accessories

Locking bracket

	Weight	Volume	Cat. No.	Pack
• Locks door in open position during wiring	0.3	0.9	0972 65	1

Accessories and catalogue numbers selection table

(see pages 164-165)

Technical criteria for selecting 316 L stations depending on their use (see pages 154 to 162)

Dimensions (see pages 155-156)

Mounting accessories (see pages 164-165)

Components for mounting on ATX Marina and stainless steel enclosure doors (see pages 189 to 193)

Enclosures available on request (please consult us)

- 304 L stainless steel
- Metal enclosure
- Painted
- Spare parts (see page 290)

Cable gland for armoured cable (see pages 252-262)



FLEXIBLE RANGE OF STAINLESS STEEL BOXES AND ENCLOSURES

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx e II	T6 - T5 - T4 - T3	T = + 110°C	IP66	IK10

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- According to CENELEC:
 - Conforming to the ATEX Directive 94/9 EC
 - Conforming to standards EN 50014/18/19
 - EC 0081 Ex II 2 G for gas EEx e II T6 to T3 according to equipment
 - EC 0081 Ex II 2 D - T = + 110°C for dust
- According to IEC
 - Conforming to standards IEC 60079-0/1/7 Ex e II T6 to T3 according to equipment
 - DIPA 21 TA = + 110°C

Certification :

- Approved type JBe
- CENELEC LCIE 02 ATEX 6118X
- IEC LCIE Ex 02.010X
- **CE** declaration of conformity no. 50232
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

- IP66 according to EN 60529 and IEC 60529
- Mechanical resistance IK10 according to EN 50102

Operating temperature :

- 40°C to + 70°C for junction use
 - 40°C to + 55°C for control panel use
- (restricted depending on the equipment selected, see components for ATX Marina and stainless steel enclosure)

316 L stainless steel features :

- Austenitic stainless steel contains at least 10.5% chrome (Cr). Chrome allows the material to protect itself with a layer that forms on the surface due to a combination of chrome and the humidity in the air.
- The addition of elements such as nickel (Ni), Molybdenum (Mo), etc. gives stainless steel excellent anti-corrosion properties. 316 L stainless steel contains Molybdenum.
- Molybdenum improves corrosion resistance, especially against chlorides which cause pitting (Molybdenum is not recommended in a nitrous atmosphere).

316 L stainless steel standards identification:

• Stainless steel sheet

Country	Standards	Stainless steel with molybdenum	
		Name	Number
Europe	EN 10088.2	X2CrNiMo17-12-2	1.4404
		X5CrNiMo17-12-2	1.4401
USA	ASTM A240	AISI 316L	UNS S31603
		AISI 316	UNS S31600

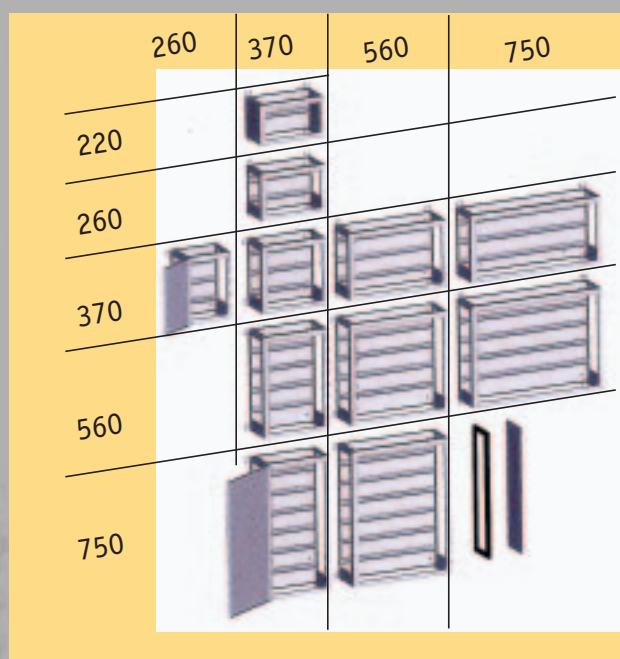
• Fixings

Country	Standards	Stainless steel with Molybdenum
Europe	EN ISO 3506-1	A4
USA	ASTM A193	B8

Data sheet available on request

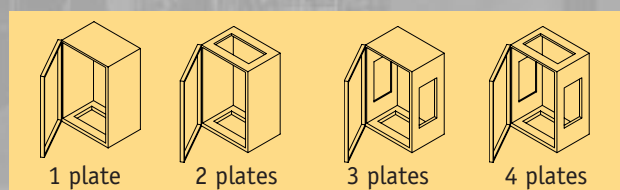
Multiple combinations

Enclosures fitted with one, two, three or four gland plates, depth 200 mm, vertically and horizontally adjustable. Many possible combinations.



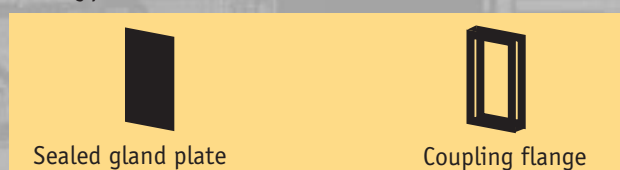
Total flexibility

Four types of enclosures with gland plate



To link two modular enclosures, remove the gland plates and replace them with sealed coupling flanges.

Two types of accessories



It is essential to follow the mounting instructions to ensure that enclosures are joined together correctly in the wiring workshop or on site.

A.T.X.®



0970 94



0970 93



0970 84

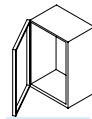
Enclosure depth 300 mm

- Supplied with mounting brackets and feedthrough earth (M8 316 L stainless steel)
- Supplied without back plate, rail, chassis or padlock
- Ready for drilling, mounting and wiring in a workshop or on site with strict adherence to the mounting instructions and technical specifications (number of terminals, power dissipation, number of cable glands, etc.)

Enclosures without gland plates

- Drilling on request :
- please consult us

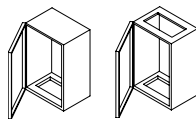
Gland plate



External dimensions Height/Width/Depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
370 x 370 x 300	15	41.07	0970 80	1
370 x 560 x 300	23	62.16	0970 95	1
370 x 750 x 300	29	83.25	0971 05	1
560 x 370 x 300	23	62.16	0970 90	1
560 x 560 x 300	33	94.08	0971 10	1
560 x 750 x 300	39	126	0971 25	1
750 x 370 x 300	29	83.25	0971 00	1
750 x 560 x 300	39	126	0971 20	1
1130 x 750 x 300	50	254.25	0971 30	1

Enclosures with one or two gland plates

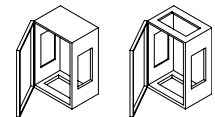
- 1 plate : bottom
- 2 plates : top and bottom



External dimensions Height/Width/Depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Cat. No.	Pack
370 x 370 x 300	15	41.07	0970 81	0970 82	1
370 x 560 x 300	23	62.16	0970 96	0970 97	1
370 x 750 x 300	29	83.25	0971 06	0971 07	1
560 x 370 x 300	23	62.16	0970 91	0970 92	1
560 x 560 x 300	33	94.08	0971 11	0971 12	1
560 x 750 x 300	39	126	0971 26	0971 27	1
750 x 370 x 300	29	83.25	0971 01	0971 02	1
750 x 560 x 300	39	126	0971 21	0971 22	1

Enclosures with 3 or 4 gland plates

- 3 plates : bottom and side
- 4 plates : all faces



External dimensions Height/Width/Depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Cat. No.	Pack
370 x 370 x 300	15	41.07	0970 83	0970 84	1
370 x 560 x 300	23	62.16	0970 98	0970 99	1
370 x 750 x 300	29	83.25	0971 08	0971 09	1
560 x 370 x 300	23	62.16	0970 93	0970 94	1
560 x 560 x 300	33	94.08	0971 13	0971 14	1
560 x 750 x 300	39	126	0971 28	0971 29	1
750 x 370 x 300	29	83.25	0971 03	0971 04	1
750 x 560 x 300	39	126	0971 23	0971 24	1

Accessories

Door locking bracket

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
• Locks door in opened position during wiring	0.3	0.9	0972 65	1

Kit with 2 additional mounting brackets

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
• Right and left mounting bracket	0.2	0.9	0972 00	1

Technical criteria for selecting 316 L stations depending on their use (see pages 154 to 162)

Dimensions (see pages 155-156)

Accessories and catalogue numbers selection table (see pages 164-165)

Components (see pages 189 to 193)

Enclosures available on request (please consult us)

- 304 L stainless steel
- Metal enclosure
- Paint
- Spare parts (see page 290)

Cable glands for armoured cable (see pages 252-268)



FLEXIBLE RANGE OF STAINLESS STEEL BOXES AND ENCLOSURES

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx e II	T6 - T5 - T4 - T3	T = + 110°C	IP66	IK10

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- According to CENELEC
 - Conforming to the ATEX Directive 94/9 EC
 - Conforming to standards EN 50014/18/19
 - EC 0081 $\text{\textcircled{Ex}}$ II 2 G for gas EEx e II T6 to T3 depending on equipment
 - EC 0081 $\text{\textcircled{Ex}}$ II 2 D - T = + 110°C for dust
- According to IEC
 - Conforming to standards IEC 60079-0/1/7 Ex e II T6 to T3 according to equipment
 - DIPA 21 TA = + 110°C

Certification :

- Approved type JBe
- CENELEC LCIE 02 ATEX 6118X
- IEC LCIE Ex 02.010X
- **CE** declaration of conformity no. 50232
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

- IP66 according to EN 60529 and IEC 60529
- Mechanical resistance IK10 according to EN 50102

Operating temperature :

- 40°C to + 70°C for junction box
 - 40°C to + 55°C for control panel use
- (restricted depending on the equipment selected; see components for ATX Marina and stainless steel enclosure)

316 L stainless steel characteristics :

- Austenitic stainless steel contains at least 10.5% chrome (Cr). Chrome allows the material to protect itself with a layer that forms on the surface due to a combination of chrome and the humidity in the air.
- The addition of elements such as nickel (Ni), Molybdenum (Mo), etc. gives stainless steel excellent anti-corrosion properties. 316 L stainless steel contains Molybdenum.
- Molybdenum improves corrosion resistance, especially against chlorides which cause pitting (Molybdenum is not recommended in a nitrous atmosphere).

316 L stainless steel standards identification :

- Stainless steel sheet

Country	Standards	Stainless steel with Molybdenum	
		Name	Number
Europe	EN 10088.2	X2CrNiMo17-12-2	1.4404
		X5CrNiMo17-12-2	1.4401
USA	ASTM A240	AISI 316L	UNS S31603
		AISI 316	UNS S31600

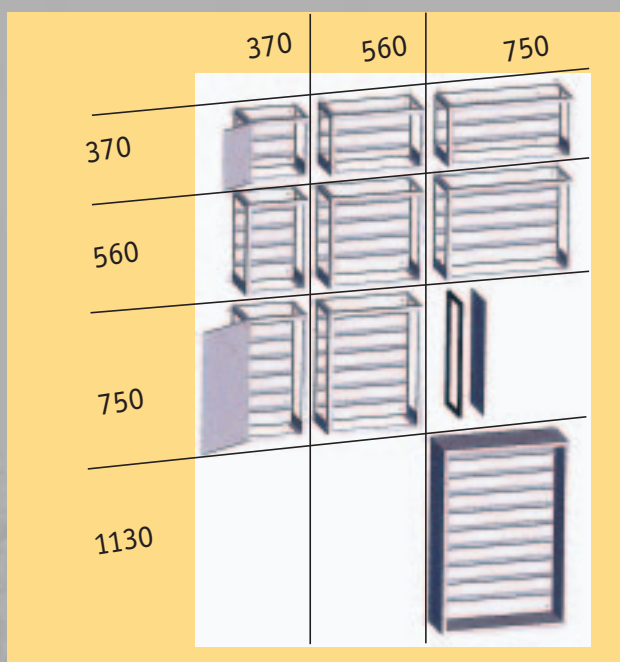
- Fixings

Country	Standards	Stainless steel with Molybdenum
Europe	EN ISO 3506-1	A4
USA	ASTM A193	B8

Data sheet available on request

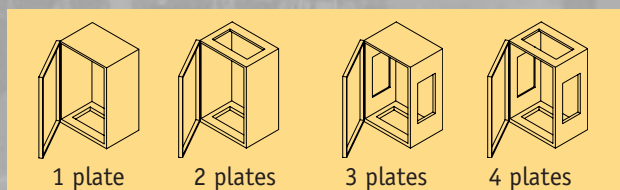
Multiple Combinations

Enclosures fitted with one, two, three or four gland plates, depth 300 mm, vertically and horizontally adjustable. Many possible combinations.



Total flexibility

Four types of enclosures with gland plate



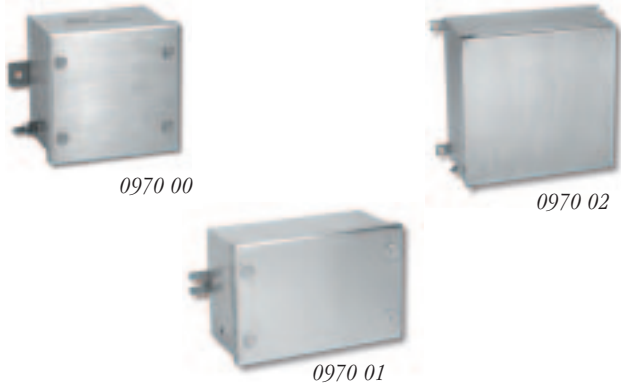
To link two modular enclosures, remove the gland plates and replace them with sealed coupling flanges.

Two types of accessory



It is essential to follow the mounting instructions to ensure that enclosures are joined together correctly in the wiring workshop or on site.





Boxes depth 95 mm

- Supplied undrilled without rail or back plate and fitted with an M6 stud earth.
- Boxes can be drilled on the side panels
- Fitted with 2 welded studs at the back of the box to mount a base plate or a rail
- **Important: You must stick to the number of permissible terminals, the power dissipation and the number of cable glands permitted per side (see page 157).**

Catalogue numbers

External dimensions Height/Width/Depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
120 x 120 x 95	1	1.37	0970 00	1
120 x 180 x 95	1.5	2	0970 01	1
180 x 180 x 95	1.8	3	0970 02	1

Accessories

	Cat. No.	Pack
Set of 10 rails for box 0970 00 (L 100 mm)	0970 01/02 0972 46	1
Back plate for box 0970 00	0972 47	1
	0970 01 0972 77	1
	0970 02 0972 78	1
	0972 79	1

For special options, please consult us :

- Dimensions (see page 155)
- 316 L stainless steel control stations (see page 176)

Accessories and catalogue numbers selection table
(see pages 164-165)

- Spare parts (see page 290)

Cable glands for armoured cable (see pages 252-268)



Part number in bold : fast moving references

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx ed IIC	T6	T = + 110°C	IP66	IK10

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- According to CENELEC:
 - Conforming to the ATEX Directive 94/9 EC
 - Conforming to standards EN 50014/18/19
 - EC 0081 II 2 G for gas EEx ed II T6
 - EC 0081 II 2 D - T = + 110°C for dust
- According to IEC
 - Conforming to standards IEC 60079-0/1/7 Ex II T6
 - DIPA 21 TA = + 110°C

Certification :

- Approved type JBe
- CENELEC LCIE 02 ATEX 6118X
- IEC LCIE Ex 02.010X
- **CE** declaration of conformity no. 50232
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

- IP66 according to EN 60529 and IEC 60529
- Mechanical resistance IK10 according to EN 50102'

Operating temperature :

- 40°C to + 70°C

16 L stainless steel contains :

- Austenitic stainless steel is steel containing at least 10.5% chrome (Cr). Chrome allows the material to protect itself with a layer that forms on the surface due to a combination of chrome and the humidity in the air.
- The addition of elements such as nickel (Ni), Molybdenum (Mo), etc. gives stainless steel excellent anti-corrosion properties. 316 L stainless steel contains Molybdenum.
- Molybdenum improves corrosion resistance, especially against chlorides which cause pitting (Molybdenum is not recommended in a nitrous atmosphere).

316 L stainless steel standards identification:

- Stainless steel sheet

Country	Standards	Stainless steel with Molybdenum	
		Name	Number
Europe	EN 10088.2	X2CrNiMo17-12-2	1.4404
		X5CrNiMo17-12-2	1.4401
USA	ASTM A240	AISI 316L	UNS S31603
		AISI 316	UNS S31600

- Fixings

Country	Standards	Stainless steel with Molybdenum	
		Name	Number
Europe	EN ISO 3506-1	A4	
USA	ASTM A193	B8	

316 L stainless steel undrilled junction boxes complete with terminals

increased safety



0971 89

EEEx “e” increased safety boxes

- Standard versions fitted with “Viking” EEx “e” terminals
- Other terminals: available on request
- Supplied with 1 white dilophane label, 80 x 20 mm, to be engraved (text in black)

Box without gland plate

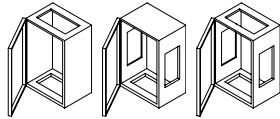
External dimensions Height/Width/Depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
180 x 120 x 95	2.5	2	0971 84	1

- Number of terminals (supplied mounted)

Box dimensions (mm)	2.5 mm ² terminals	2.5 mm ² earth studs
180 x 120 x 95	12	3

Boxes with 2, 3 or 4 gland plates

- 2 plates: top and bottom
- 3 plates: bottom and sides
- 4 plates: all sides



External dimensions Height/Width/Depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Cat. No.	Cat. No.	Pack
260 x 220 x 150	4	8.6	0971 85	0971 86	0971 87	1
370 x 220 x 200	9	16.3	0971 88	0971 89	0971 90	1
370 x 260 x 200	11	19.2	0971 91	0971 92	0971 93	1

- Number of terminals (supplied mounted)

Box dimensions (mm)	2.5 mm ² terminals	2.5 mm ² earth studs
260 x 220 x 150	20	4
370 x 220 x 200	40	5
370 x 260 x 200	60	6

Cable glands for armoured cable (see pages 252-268)



Part number in bold : fast moving references

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx e II or EEx ia or ib IIC	T6	T=+110°C	IP66	IK10

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- According to CENELEC:
 - Conforming to the ATEX Directive 94/9 EC
 - Conforming to standards EN 50014/18/19
 - EC 0081 II 2 G for gas EEx e II or EEx eia or eib IIC or EEx ia or ib IIC T6
 - EC 0081 II 2 D - T = + 110°C for dust
- According to IEC
 - Conforming to standards IEC 60079-0/1/7 Ex e II or Ex eia or eib IIC or Ex ia or ib IIC T6
 - DIPA 21 TA = + 110°C

Certification :

- Approved type JBe
- CENELEC LCIE 02 ATEX 6118X
- IEC LCIE Ex 02.010X
- **CE** declaration of conformity no. 50232
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”

Protection index :

- IP66 according to EN 60529 and IEC 60529
- Mechanical resistance IK10 according to EN 50102

Operating temperature :

- 40°C to + 70°C

316 L stainless steel contains:

- Austenitic stainless steel is steel containing at least 10.5% chrome (Cr). Chrome allows the material to protect itself with a layer that forms on the surface due to a combination of chrome and the humidity in the air.
- The addition of elements such as nickel (Ni), Molybdenum (Mo), etc. gives stainless steel excellent anti-corrosion properties. 316 L stainless steel contains Molybdenum.
- Molybdenum improves corrosion resistance, especially against chlorides which cause pitting (Molybdenum is not recommended in a nitrous atmosphere).

316 L stainless steel standards identification:

- Stainless steel sheet

Country	Standards	Stainless steel with Molybdenum	
		Nom	N°
Europe	EN 10088.2	X2CrNiMo17-12-2	1.4404
		X5CrNiMo17-12-2	1.4401
USA	ASTM A240	AISI 316L	UNS S31603
		AISI 316	UNS S31600

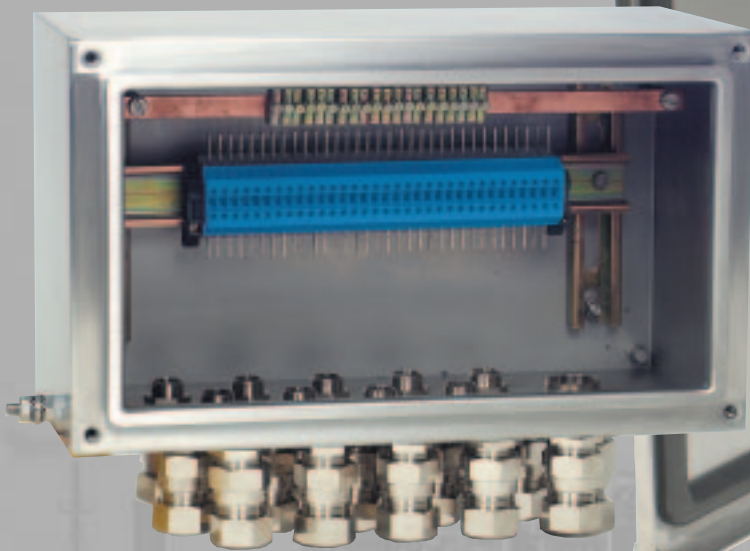
- Fixings

Country	Standards	Stainless steel with Molybdenum
Europe	EN ISO 3506-1	A4
USA	ASTM A193	B8

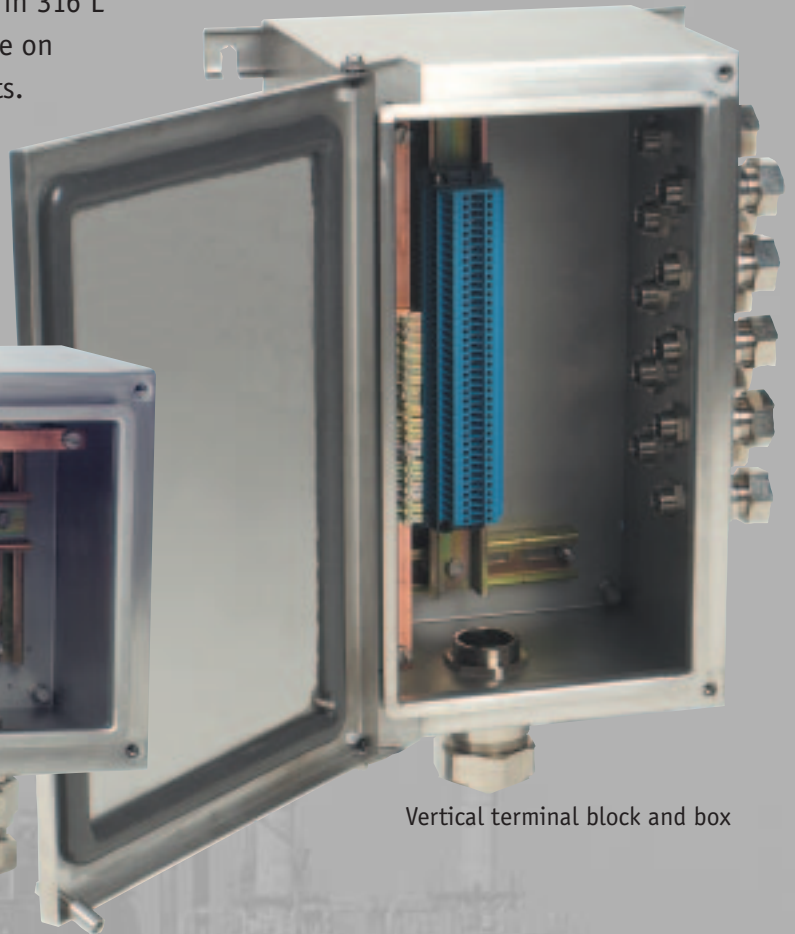
Data sheet available on request

Flexibility of use on site

The new range of ATX instrumentation boxes in 316 L stainless steel provides great flexibility of use on site to meet all your installation requirements.



Horizontal terminal block and box



Vertical terminal block and box

Quotation service on request:

ATX offers you a wide range of combinations derived from standard products or made and wired to order from plan specifications or sketches.

On request contact the ATX quotation department via ATX distributors and agents.

E-mail : cotation@atx.fr

Fax : + 33 (0) 1 48 63 77 82



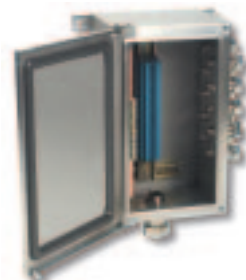
316 L stainless steel pre-drilled instrumentation boxes increased safety and intrinsic safety



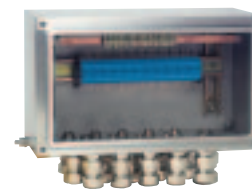
0971 62



0971 41



0971 72



0971 51

EEx “e” increased safety boxes

- Fitted with Viking EEx “i” terminals (other terminals: available on request)
- Supplied with 1 blue dilophane label, 80 x 20 mm, to be engraved (text in white)
- Cable gland, plug and bleed valve (1 x M20 drilled hole)* to be ordered separately.

Vertical terminal rail and box use

Box dimensions (mm) Height/Width/Depth	Weight (Kg)	Volume (Dm ³)	Cat. No.	Pack
180 x 120 x 95	2,5	2	0971 60	1
260 x 220 x 150	4	8,6	0971 61	1
370 x 220 x 200	9	16,28	0971 62	1
370 x 260 x 200	11	19,24	0971 63	1

- Number of connector terminals and available cable entries:

	2.5 mm ² terminals	Connectors (1)	Clearance hole (cable entry) Bottom	Side (2)
0971 60	12	08	1 x M25 + 1 x M20*	2 x (3 M20)
0971 61	20	12	1 x M32 + 1 x M20*	2 x (5 M20)
0971 62	40	22	1 x M40 + 1 x M20*	2 x (10 M20)
0971 63	60	32	1 x M50 + 1 x M20*	2 x (15 M20)

1) Connector on copper bar (2) on each panel

EEx “i” intrinsic safety boxes

- Standard versions fitted with “Viking” EEx “i” terminals (other terminals: available on request)
- Supplied with 1 blue dilophane label, 80 x 20 mm, to be engraved (text in white)
- Cable gland, plug and bleed valve (1 x M20 drilled hole)* to be ordered separately.

Vertical terminal block and box use

Box dimensions (mm) Height/Width/Depth	Weight (Kg)	Volume (Dm ³)	Cat. No.	Pack
180 x 120 x 95	2,5	2	0971 70	1
260 x 220 x 150	4	8,6	0971 71	1
370 x 220 x 200	9	16,28	0971 72	1
370 x 260 x 200	11	19,24	0971 73	1

- Number of terminals, connectors and available cable entries:

	2.5 mm ² terminals	connector (1)	Clearance hole (cable entry) Bottom	Side (2)
0971 70	12	08	1 x M25 + 1 x M20*	2 x (3 M20)
0971 71	20	12	1 x M32 + 1 x M20*	2 x (5 M20)
0971 72	40	22	1 x M40 + 1 x M20*	2x (10 M20)
0971 73	60	32	1x M50 + 1 x M20*	2x (15 M20)

1) Connector on copper bar (2) on each side

Horizontal terminal rail and box use

Box dimensions (mm) Height/Width/Depth	Weight (Kg)	Volume (Dm ³)	Cat. No.	Pack
220 x 260 x 150	4	8,6	0971 40	1
220 x 260 x 150	4	8,6	0971 41	1
220 x 370 x 200	9	16,28	0971 42	1
220 x 370 x 200	9	16,28	0971 43	1

- Number of terminals, shielding and available cable entries:

	2.5 mm ² terminals	Shielding	Clearance hole (cable entry) Bottom (only)	Bottom
0971 40	14	07	1 x M25	07 x M20
0971 41	24	12	1 x M32	12 x M20
0971 42	38	19	1 x M32	19 x M20
0971 43	54	27	1x M40	27 x M20

Horizontal terminal block and box use

Box dimensions (mm) Height/Width/Depth	Weight (Kg)	Volume (Dm ³)	Cat. No.	Pack
220 x 260 x 150	4	8,6	0971 50	1
220 x 260 x 150	4	8,6	0971 51	1
220 x 370 x 200	9	16,28	0971 52	1
220 x 370 x 200	9	16,28	0971 53	1

- Number of terminals, shielding and available cable entries:

	2.5 mm ² terminals	Shielding	Clearance hole (cable entry) Bottom (only)	Bottom
0971 50	14	07	1 x M25	07 x M20
0971 51	24	12	1 x M32	12 x M20
0971 52	38	19	1 x M32	19 x M20
0971 53	54	27	1x M40	27 x M20






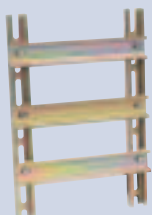
- **Data sheet** (see page 151)
- **EEx “i” accessories box** (see pages 200-201 and 268)
- **Dimensions** (see pages 155-156)
- **Other dimensions, materials, terminals** (please consult us)
- **Spare parts** (see page 290)

Cable glands for armoured cable (see pages 252-268)

Accessories

Bleed valve/breather valve	Material	Cat. No.	Pack
IP66 M20	Polyamide	0934 86	1
	Brass	0934 87	1
	Stainless steel	0934 88	1

Technical criteria for selecting 316 L enclosures depending on their use (see page)

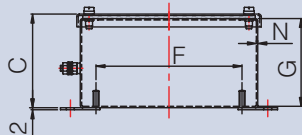
	Junction	Instrumen- tation	Medium voltage	Control
 <p>Dimensions</p> <ul style="list-style-type: none"> • Internal and external dimensions of the enclosures and their direction of mounting (vertical or horizontal) 	155	155	155	155
	156	156	156	156
 <p>Number of terminals physically permissible</p> <ul style="list-style-type: none"> • Depending on the direction of mounting of enclosure (vertical or horizontal) - the direction of installation of the chassis and rails (vertical or horizontal) - the cross-section and pitch of the terminals 	157	157		
	158	158		
 <p>Number of possible cable entries per face</p> <ul style="list-style-type: none"> • For enclosures with or without gland plate • For each size and type of cable gland 	159	159		
	160			160
 <p>Maximum permissible power</p> <ul style="list-style-type: none"> • Depending on the terminal cross-section and the current - the temperature class and the ambient temperature - the internal equipment (inside the control enclosure) • Power calculation example • Quick reference summary table to determine the number of terminals permissible depending on the current for the most common enclosures 				
	164	164	164	164
 <p>Enclosure equipment</p> <ul style="list-style-type: none"> • External : <ul style="list-style-type: none"> - gland plates - coupling kit - padlock - bleed valves, breather, etc. • Internal : <ul style="list-style-type: none"> - chassis, rails - back plate - earth studs 	165	165	165	165
				

TECHNICAL DATA : Dimensions of enclosures and boxes

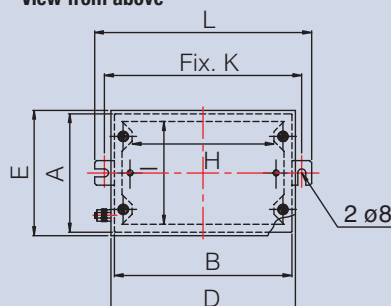
- 316 L stainless steel box dimensions
- External dimensions, depths and openings of boxes

Box depth 95 mm

Side view



View from above

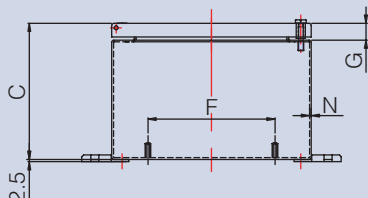


Box depth 95 H x W x D (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N
120 x 120 x 95	120	120	95	127	127	88	89,00	84	104	/	140	160	/	1,5
120 x 180 x 95	120	180	95	187	127	148	89,00	144	104	/	200	220	/	1,5
180 x 180 x 95	180	180	95	187	187	148	89,00	144	164	/	200	220	/	1,5

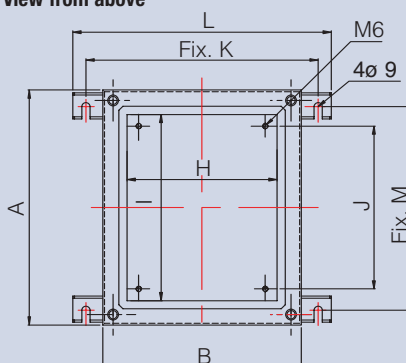
Enclosures depth 200 and 300 mm

- Dimensions of enclosure depth 200 mm
- Dimensions of enclosure depth 300 mm

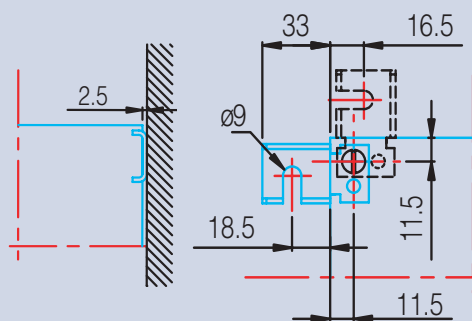
Side view



View from above



Mounting bracket details



Enclosures depth 200 mm

Depth 200 H x W x D (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N
220 x 370 x 200	220	370	200	/	/	290	18,50	316	166	140	407	436	185	1,50
370 x 260 x 200	370	260	200	/	/	180	18,50	206	316	290	297	326	335	1,50
370 x 370 x 200	370	370	200	/	/	290	18,50	316	316	290	407	436	335	2,00
560 x 370 x 200	560	370	200	/	/	290	18,50	316	506	480	407	436	525	2,00
750 x 370 x 200	750	370	200	/	/	290	18,50	316	695	670	407	436	715	2,00
560 x 560 x 200	560	560	200	/	/	480	18,50	506	506	480	597	626	525	2,00
750 x 560 x 200	750	560	200	/	/	480	18,50	506	696	670	597	626	715	2,00
1130 x 750 x 200	1130	750	200	/	/	670	18,50	696	1076	1050	787	816	1095	2,00

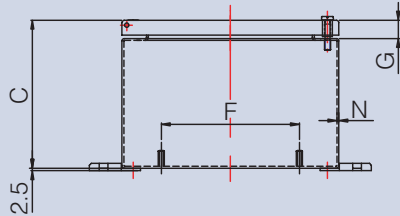
Enclosures depth 300 mm

H x W x D (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N
370 x 370 x 300	370	370	300	/	/	290	18,50	316	316	290	407	436	335	2,00
560 x 370 x 300	560	370	300	/	/	290	18,50	316	506	480	407	436	525	2,00
750 x 370 x 300	750	370	300	/	/	290	18,50	316	695	670	407	436	715	2,00
560 x 560 x 300	560	560	300	/	/	480	18,50	506	506	480	597	626	525	2,00
750 x 560 x 300	750	560	300	/	/	480	18,50	506	696	670	597	626	715	2,00
1130 x 750 x 300	1130	750	300	/	/	670	18,50	696	1076	1050	787	816	1095	2,00

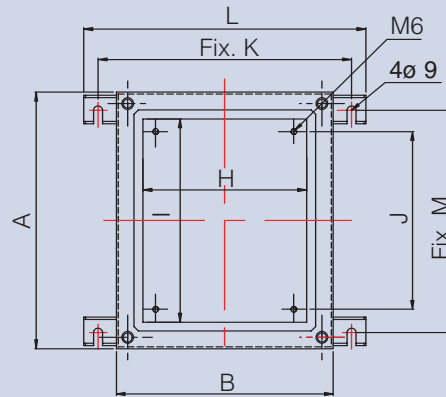
TECHNICAL DATA : Dimensions of enclosures and boxes

Enclosure depth 150 mm

Side view



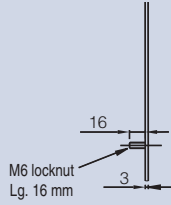
Front view



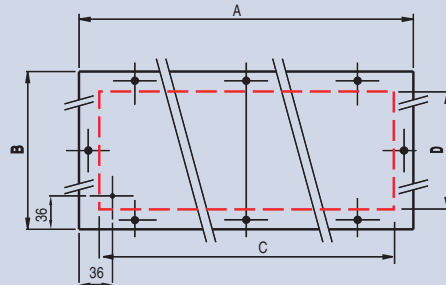
H x W x D (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N
260 X 220 X 150	260	220	150	/	/	140	18,50	166	206	180	257	286	225	1,50

Sealed gland plates depths 200 or 300 mm

Side view



Front view



Side view



Front view

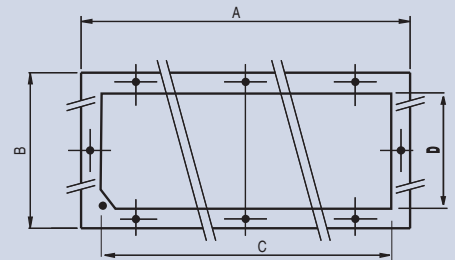


Plate for enclosure depth 200 mm						Plate for enclosure depth 300 mm					
Part nos.	A	B	C	D	Thickness	Part nos.	A	B	C	D	Thickness
097304	210	170	166	126	3 mm	097298	320	270	276	226	3 mm
097290	250	170	206	126	3 mm	097299	360	270	316	226	3 mm
097291	320	170	276	126	3 mm	097300	510	270	466	226	3 mm
097292	360	170	316	126	3 mm	097301	550	270	506	226	3 mm
097293	510	170	466	126	3 mm	097302	700	270	656	226	3 mm
097294	550	170	506	126	3 mm	097303	740	270	696	226	3 mm
097295	700	170	656	126	3 mm						
097296	740	170	696	126	3 mm						

TECHNICAL DATA: Number of terminals physically permissible

• Very important :

- Selecting a box or enclosure equipped with terminals requires that certain parameters be followed up in accordance with the mode of use, the criteria for the number of possible terminals alone is not sufficient
- It is therefore necessary to check the number of cable entries authorised per face and the maximum permissible power dissipation

Table 1 : Permissible number of terminals with box in vertical or horizontal position and terminal block in the opposite direction (EEx e or EEx i enclosure)

* For power disposition see page 160/161/162



Box dimensions height x width (mm)	Cable capacity in (mm ²)						
	2,5	4	6	10	16	35	70
	Pitch in (mm)						
	5	6	8	10	12	15	22
120 x 120	10 (1)	8 (1)	6 (1)	5 (1)	-	-	-
120 x 180	21 (1)	18 (1)	13 (1)	11 (1)	-	-	-
180 x 180	21 (1)	18 (1)	13 (1)	11 (1)	-	-	-
260 x 220	40 (2)	32 (2)	24 (2)	20 (2)	8 (1)	6 (1)	-
370 x 220	60 (3)	48 (3)	36 (3)	30 (3)	16 (2)	12 (2)	4 (1)
370 x 260	84 (3)	69 (3)	34 (2)	28 (2)	22 (2)	18 (2)	6 (1)
370 x 370	150 (3)	123 (3)	93 (2)	75 (2)	40 (2)	32 (2)	11 (1)
560 x 370	250 (5)	205 (5)	124 (4)	100 (4)	80 (4)	48 (3)	22 (2)
750 x 370	400 (8)	328 (8)	186 (6)	150 (6)	100 (5)	64 (4)	33 (3)
560 x 560	440 (5)	365 (5)	220 (4)	176 (4)	108 (4)	87 (3)	40 (2)
750 x 560	704 (8)	584 (8)	330 (6)	264 (6)	180 (5)	116 (4)	30 (3)
1130 x 750	1512 (12)	1260 (12)	702 (9)	567 (9)	416 (8)	252 (6)	112 (4)

- Between brackets (--) : Number of rails
- For terminals with capacities greater than 70 mm² : please consult us

Table 2 : Permissible number of terminals with box in vertical or horizontal position and terminal block in the same direction (EEx e or EEx i enclosure)



Box dimensions height x width (mm)	Cable capacity in (mm ²)						
	2,5	4	6	10	16	35	70
	Pitch in (mm)						
	5	6	8	10	12	15	22
260x220	28 (1)	23 (1)	17 (1)	14 (1)	8 (1)	6 (1)	-
370x220	50 (1)	41 (1)	31 (1)	25 (1)	20 (1)	16 (1)	-
370x260	100 (2)	82 (2)	62 (2)	50 (2)	20 (1)	16 (1)	-
560x370	264 (3)	219 (3)	165 (3)	132 (3)	72 (2)	58 (2)	20 (1)
750x370	378 (3)	315 (3)	234 (3)	189 (3)	104 (2)	84 (2)	28 (1)
750x560	630 (5)	525 (5)	312 (4)	252 (4)	156 (3)	126 (3)	56 (2)
1130x750	1616 (8)	1344 (8)	756 (6)	606 (6)	420 (5)	268 (4)	135 (3)

- Between brackets (--) : Number of rails
- For terminals with capacities greater than 70 mm² : please consult us

Data sheet available on request

TECHNICAL DATA : Maximum number of cable entries per face

- **Important :**

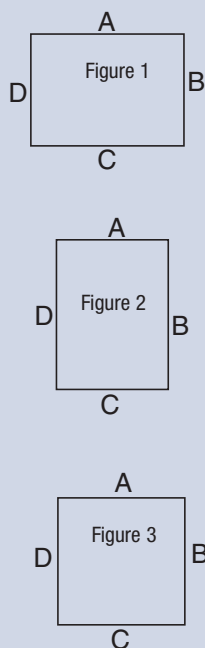
- The number of entries per enclosure and the methods of drilling on site must be followed up in order to preserve the specifications stipulated in the standards.

- **Table 3 :** Maximum number of cable entries per face

- The technical information below concerns enclosures without gland plates (dimensions - height x width x depth in mm)
- For enclosures with gland plates, reduce the number of cable entries by 30%

- **Table 3 :** Maximum number of cable entries per face

- Junction boxes and undrilled control stations



Figures	3			2			3			1		
Faces	A/C	B	D	A/C	B	D	A/C	B	D	A/C	B	D
Units	097000			097001			097002			097003		
H x L (mm)	120 x 120			120 x 180			180 x 180			220 x 260		
Depth	95			95			95			150		
Cable entries	Number of cable entries											
M16 095756	10	6	7	14	6	7	14	10	11	33	26	27
M20 095502	6	5	4	10	4	5	10	8	9	20	17	18
095522	6	5	4	10	4	5	10	8	9	20	17	18
095560	6	5	4	10	4	5	10	8	9	20	17	18
095561	6	5	4	10	4	5	10	8	9	20	17	18
095605	5	3	4	9	3	4	9	7	8	20	15	17
095523	3	2	2	7	2	2	7	4	5	16	12	13
095573	3	2	2	7	2	2	7	4	5	16	12	13
M25 095562	5	3	4	9	3	4	9	7	8	20	15	17
095563	3	2	2	7	2	2	7	4	5	16	12	13
095606	3	2	2	7	2	2	7	4	5	16	12	13
095524	3	2	2	5	2	2	5	4	4	9	7	7
095574	3	2	2	5	2	2	5	4	4	9	7	7
M32 095757	1	1	1	2	1	1	2	2	2	7	5	6
095564	1	1	1	2	1	1	2	2	2	7	5	6
095535	1	1	1	2	1	1	2	2	2	8	6	6
095575	1	1	1	2	1	1	2	2	2	8	6	6
M40 095758	1	1	1	2	1	2	2	1	2	3	2	2

To define a mix of cable gland sizes, see in the table the authorized quantity of M20 entries ; as a quick estimate one M25 takes place of two M20 ; one M32 takes place of three M20 ; one M40 takes place of four M20

TECHNICAL DATA : Maximum number of cable entries per face

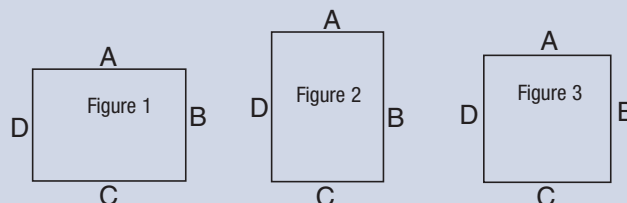
• Important :

– The number of entries per enclosure and the methods of drilling on site must be followed up in order to preserve the specifications stipulated in the standards.

• Table 4 : Maximum number of cable entries per face

– The technical information below concerns enclosures without gland plates (dimensions - height x width x depth in mm)

- For enclosures with gland plates: reduce the number of cable entries by 30%



• Table 4 : Maximum number of cable entries per face

Figures	1	2	3	2	2	3	2	3	2	2	3	2	
Faces	A/C B/D	A/C B/D	A/C B/D	A/C B/D	A/C B/D	A/C B/D	A/C B/D	A/C B/D	A/C B/D	A/C B/D	A/C B/D	A/C B/D	
Enclosure Cat. No.	097010	097020	097030	097040	097050	097060	097070	097080	097090	097100	097110	097120	
Box dimensions	220X370	370X260	370X370	560X370	750X370	560X560	750X560	370x370	560X370	750X370	560X560	750X560	
Depth (mm)	200	200	200	200	200	200	200	300	300	300	300	300	
Cable entries	Number of cable entries per face												
M16	095756	64 - 34	43 - 63	64 - 63	64 - 99	64 - 138	100 - 99	100 - 138	104 - 103	104 - 149	104 - 204	150 - 149	150 - 204
M20	095502	45 - 26	30 - 44	45 - 44	45 - 71	45 - 95	72 - 71	72 - 95	75 - 74	75 - 79	75 - 164	120 - 119	120 - 164
	095522	45 - 26	30 - 44	45 - 44	45 - 71	45 - 95	72 - 71	72 - 95	75 - 74	75 - 79	75 - 164	120 - 119	120 - 164
	095560	45 - 26	30 - 44	45 - 44	45 - 71	45 - 95	72 - 71	72 - 95	75 - 74	75 - 79	75 - 164	120 - 119	120 - 164
	095561	45 - 26	30 - 44	45 - 44	45 - 71	45 - 95	72 - 71	72 - 95	75 - 74	75 - 79	75 - 164	120 - 119	120 - 164
	095605	48 - 23	33 - 46	48 - 46	48 - 69	48 - 99	70 - 69	70 - 99	72 - 71	72 - 115	72 - 159	116 - 115	116 - 159
	095523	32 - 17	20 - 31	32 - 31	32 - 49	32 - 67	50 - 49	50 - 67	45 - 45	45 - 75	45 - 102	102 - 75	75 - 102
	095573	32 - 17	20 - 31	32 - 31	32 - 49	32 - 67	50 - 49	50 - 67	45 - 45	45 - 75	45 - 102	102 - 75	75 - 102
M25	095562	48 - 23	33 - 46	48 - 46	48 - 69	48 - 99	70 - 69	70 - 99	72 - 71	72 - 115	72 - 159	116 - 115	116 - 159
	095563	32 - 17	20 - 31	32 - 31	32 - 49	32 - 67	50 - 49	50 - 67	45 - 45	45 - 75	45 - 102	102 - 75	75 - 102
	095606	32 - 17	20 - 31	32 - 31	32 - 49	32 - 67	50 - 49	50 - 67	45 - 45	45 - 75	45 - 102	102 - 75	75 - 102
	095524	26 - 13	18 - 25	26 - 25	26 - 41	26 - 57	42 - 41	42 - 57	39 - 39	39 - 61	39 - 87	61 - 61	61 - 87
	095574	26 - 13	18 - 25	26 - 25	26 - 41	26 - 57	42 - 41	42 - 57	39 - 39	39 - 61	39 - 87	61 - 61	61 - 87
M32	095757	18 - 9	13 - 17	18 - 17	18 - 27	18 - 37	28 - 27	28 - 37	28 - 28	28 - 44	28 - 60	44 - 44	44 - 60
	095564	18 - 9	13 - 17	18 - 17	18 - 27	18 - 37	28 - 27	28 - 37	28 - 28	28 - 44	28 - 60	44 - 44	44 - 60
	095535	10 - 6	8 - 10	10 - 10	10 - 16	10 - 22	16 - 16	16 - 22	20 - 20	20 - 30	20 - 46	30 - 30	30 - 46
	095575	10 - 6	8 - 10	10 - 10	10 - 16	10 - 22	16 - 16	16 - 22	20 - 20	20 - 30	20 - 46	30 - 30	30 - 46
M40	095758	7 - 4	5 - 2	7 - 7	7 - 13	7 - 18	13 - 13	18 - 13	16 - 16	16 - 26	16 - 36	26 - 26	26 - 36
	095565	7 - 4	5 - 2	7 - 7	7 - 13	7 - 18	13 - 13	18 - 13	16 - 16	16 - 26	16 - 36	26 - 26	26 - 36
	095526	7 - 4	5 - 2	7 - 7	7 - 13	7 - 18	13 - 13	18 - 13	16 - 16	16 - 26	16 - 36	26 - 26	26 - 36
	095576	7 - 4	5 - 2	7 - 7	7 - 13	7 - 18	13 - 13	18 - 13	16 - 16	16 - 26	16 - 36	26 - 26	26 - 36
M50	095759	5 - 3	3 - 5	5 - 5	5 - 7	5 - 10	7 - 7	7 - 10	13 - 12	13 - 20	13 - 25	20 - 20	20 - 25
	095566	5 - 3	3 - 5	5 - 5	5 - 7	5 - 10	7 - 7	7 - 10	13 - 12	13 - 20	13 - 25	20 - 20	20 - 25
	095527	5 - 3	3 - 5	5 - 5	5 - 7	5 - 10	7 - 7	7 - 10	13 - 12	13 - 20	13 - 25	20 - 20	20 - 25
	095578	5 - 3	3 - 5	5 - 5	5 - 7	5 - 10	7 - 7	7 - 10	13 - 12	13 - 20	13 - 25	20 - 20	20 - 25
M63	095528	3 - 2	2 - 3	3 - 3	3 - 5	3 - 7	5 - 5	5 - 7	6 - 6	6 - 10	6 - 14	10 - 10	10 - 14
	095580	3 - 2	2 - 3	3 - 3	3 - 5	3 - 7	5 - 5	5 - 7	6 - 6	6 - 10	6 - 14	10 - 10	10 - 14
M75	095582	3 - 1	2 - 3	3 - 3	3 - 5	3 - 6	5 - 5	5 - 6	6 - 6	6 - 10	6 - 12	10 - 10	10 - 12

To define a mix of cable gland sizes, see in the table the authorized quantity of M20 entries ; as a quick estimate one M25 takes place of two M20 ; one M32 takes place of three M20 ; one M40 takes place of four M20

TECHNICAL DATA : Maximum permissible power

- **According to** : – the terminal cross-section and the current
– the temperature class and ambient temperature

- **Table 5**

– Power dissipated by each terminal (w) according to the current (A) cross-section in mm²

• Current in A	Cross-section in mm ²						
	2,5	4	6	10	16	35	70
5	0,35	0,25	0,15	0,12	0,075	0,057	-
10	1,35	0,8	0,5	0,28	0,19	0,12	0,09
15	3	1,75	1,15	0,7	0,45	0,23	0,2
20	-	2,8	2,12	1,32	0,79	0,45	0,28
30	-	-	4,58	3	1,8	0,96	0,65
40	-	-	-	5	3,3	1,63	1
50	-	-	-	-	5,18	2,65	1,7
60	-	-	-	-	-	3,7	2,25
70	-	-	-	-	-	5,1	3,1
80	-	-	-	-	-	6,5	4
90	-	-	-	-	-	7,5	5
100	-	-	-	-	-	-	6,3
110	-	-	-	-	-	-	7,6
120	-	-	-	-	-	-	9
130	-	-	-	-	-	-	10,65
140	-	-	-	-	-	-	12,15
145	-	-	-	-	-	-	13

- **Power dissipation of control and indicators** (table 6)

Contact block ≤ 1W for control circuit, 3W at I max 16A (+ 40°C)
Multi-voltage indicator ≤ 1W

- **Maximum permissible power for enclosure according to the ambient temperature class** (table 7)

Ta max	T° class	Maximum permissible power per enclosure up to 370 x 370 x 300 (mm)							
		120 x 120 95 (mm)	120 x 180 95 (mm)	180 x 180 95 (mm)	260 x 220 150 (mm)	370 x 220 200 (mm)	370 x 260 200 (mm)	370 x 370 200 (mm)	370 x 370 300 (mm)
+ 40°C	T6	14 W	28 W	32 W	55 W	80 W	87 W	106 W	133 W
	T5	16 W	34 W	-	64 W	92 W	98 W	128 W	152 W
+ 55°C	T6	8 W	18 W	19 W	32 W	46 W	50 W	62 W	76 W
	T5	9 W	18 W	-	36 W	54 W	57 W	73 W	88 W
+ 70°C	T6	2 W	5 W	7 W	12 W	19 W	20 W	22 W	32 W
	T5	3 W	6 W	-	13 W	20 W	22 W	27 W	34 W

Ta max	T° class	Maximum permissible power per enclosure up to 1130 x 260 x 300								
		560 x 370 200 (mm)	560 x 370 300 (mm)	750 x 370 200 (mm)	750 x 370 300 (mm)	560 x 560 200 (mm)	560 x 560 300 (mm)	750 x 560 200 (mm)	750 x 560 300 (mm)	1130 x 560 300 (mm)
+ 40°C	T6	145 W	175 W	169 W	220 W	192 W	232 W	242 W	288 W	489 W
	T5	166 W	200 W	192 W	254 W	218 W	262 W	273 W	326 W	-
+ 55°C	T6	83 W	101 W	100 W	125 W	110 W	135 W	138 W	164 W	280 W
	T5	97 W	118 W	116 W	146 W	128 W	155 W	161 W	190 W	325 W
+ 70°C	T6	36 W	43 W	45 W	54 W	48 W	58 W	60 W	72 W	125 W
	T5	38 W	46 W	48 W	59 W	51 W	62 W	65 W	79 W	131 W

TECHNICAL DATA : Calculation examples

- Search for an enclosure by number of terminals

• Example No. 1

- Known elements
 - Number of active terminals 76
 - Terminal cross-section 4 mm²
 - Current 10 A
 - Max. ambient temperature + 40°C
 - Temperature class T6 = + 85°C

- The dimensions of boxes with the capacity to accommodate 76 terminals are 370 x 260 mm (see table 2)
 Note : For the same box used in a vertical position with a horizontal terminal block or in a horizontal position with a vertical terminal block, table 1, can only accommodate 69 terminals

- Power dissipation by 76 terminals $76 \times 0.8 = 60.8W$
- Table 7 shows that the 370 x 260 x 200 mm box permits a dissipated power of 87W
- Boxes 970 02/21/22/23/24/ and 0970 25/26/27/28/29 with full chassis are suitable for this application

• Example No. 2

- Known elements
 - Number of active terminals 76
 - Terminal cross-section 4 mm²
 - Current 15 A
 - Max. ambient temperature 40°C
 - Temperature class T6 (85°C)

- The dimensions of boxes with the capacity to accommodate 76 terminals are 370 x 260 (see table 2)
- Power dissipation $76 \times 1.75 = 133 W$
- Table 7 shows that the 370 x 260 x 200 mm box permits a dissipated power of 87 W, which is insufficient. The first boxes to permit 133W for Ta + 40°C and class T5 are 370 x 370 x 300 or 560 x 370 x 200 mm (see table 7)
- Boxes 970 80/81/82/83/84 with chassis 0972 13 and boxes 0970 90 to 99 with chassis are suitable for this application

• Calculation tables for the most common enclosures

Enclosures 097025/23/24/26/27 - (260 x 370 x 200) mm

Class Permis. power (W) Current in A	Ta + 40°C - T6 87						Class Permis. power (W) Current in A	Ta + 55°C - T5 57							
	2,5 mm ²	4 mm ²	Number of terminals					2,5 mm ²	4 mm ²	Number of terminals					
			6 mm ²	10 mm ²	16 mm ²	35 mm ²	70 mm ²				6 mm ²	10 mm ²	16 mm ²	35 mm ²	70 mm ²
5	100	82	62	50	20	16	-	5	100	82	62	50	20	16	-
10	64	82	62	50	20	16	-	10	42	82	62	50	20	16	-
15	29	49	62	50	20	16	-	15	19	32	49	50	20	16	-
20	-	31	41	50	20	16	-	20	-	20	26	43	20	16	-
30	-	-	19	29	20	16	-	30	-	-	12	19	20	16	-
40	-	-	-	17	20	16	-	40	-	-	-	11	17	16	-
50	-	-	-	-	16	16	-	50	-	-	-	-	11	16	-
60	-	-	-	-	-	16	-	60	-	-	-	-	-	15	-
70	-	-	-	-	-	17	-	70	-	-	-	-	-	11	-
80	-	-	-	-	-	13	-	80	-	-	-	-	-	8	-
90	-	-	-	-	-	11	-	90	-	-	-	-	-	7	-

Enclosures 097020/21/22/23/24 - (370 x 260 x 200)

Class Permis. power (W) Current in A	Ta + 40°C - T6 87						Class Permis. power (W) Current in A	Ta + 55°C - T5 57							
	2,5 mm ²	4 mm ²	Number of terminals					2,5 mm ²	4 mm ²	Number of terminals					
			6 mm ²	10 mm ²	16 mm ²	35 mm ²	70 mm ²				6 mm ²	10 mm ²	16 mm ²	35 mm ²	70 mm ²
5	84	69	34	28	22	18	-	5	84	69	34	28	22	18	-
10	64	69	34	28	22	18	6	10	42	69	34	28	22	18	6
15	29	49	34	28	22	18	-	15	19	32	34	28	22	18	-
20	-	31	34	28	22	18	6	20	-	20	26	28	22	18	6
30	-	-	19	28	22	18	6	30	-	-	12	19	22	18	6
40	-	-	-	17	22	18	6	40	-	-	-	11	17	18	6
50	-	-	-	-	16	18	-	50	-	-	-	-	11	18	-
60	-	-	-	-	-	18	6	60	-	-	-	-	-	15	6
70	-	-	-	-	-	17	6	70	-	-	-	-	-	11	6
80	-	-	-	-	-	13	6	80	-	-	-	-	-	8	6
90	-	-	-	-	-	11	6	90	-	-	-	-	-	7	6
100	-	-	-	-	-	-	6	100	-	-	-	-	-	-	6
110	-	-	-	-	-	-	6	110	-	-	-	-	-	-	6
120	-	-	-	-	-	-	6	120	-	-	-	-	-	-	6
130	-	-	-	-	-	-	6	130	-	-	-	-	-	-	5
140	-	-	-	-	-	-	6	140	-	-	-	-	-	-	4
145	-	-	-	-	-	-	6	145	-	-	-	-	-	-	4

Information available on electronic support, please consult cotation @atx.fr

Data sheet available on request

TECHNICAL DATA : Calculation tables for the most common enclosures (cont.)

Enclosures 097030/31/32/33/34 - (370 x 370 x 200) mm															
Class Permis. power (W) Current in A	Ta + 40°C - T6 106							Class Permis. power (W) Current in A	Ta + 55°C - T5 73						
	Number of terminals								Number of terminals						
	2,5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	35 mm ²	70 mm ²		2,5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	35 mm ²	70 mm ²
5	150	123	93	75	40	32	-	5	150	123	93	75	40	32	-
10	78	123	93	75	40	32	11	10	54	91	93	75	40	32	11
15	35	60	92	75	40	32	-	15	24	41	63	75	40	32	-
20	-	37	50	75	40	32	11	20	-	26	34	55	40	32	11
30	-	-	23	35	40	32	11	30	-	-	15	24	40	32	11
40	-	-	-	21	32	32	11	40	-	-	-	14	22	32	11
50	-	-	-	-	20	32	-	50	-	-	-	-	14	27	-
60	-	-	-	-	-	28	11	60	-	-	-	-	-	19	11
70	-	-	-	-	-	20	11	70	-	-	-	-	-	14	11
80	-	-	-	-	-	16	11	80	-	-	-	-	-	11	11
90	-	-	-	-	-	14	11	90	-	-	-	-	-	9	11
100	-	-	-	-	-	-	11	100	-	-	-	-	-	-	11
110	-	-	-	-	-	-	11	110	-	-	-	-	-	-	9
120	-	-	-	-	-	-	11	120	-	-	-	-	-	-	8
130	-	-	-	-	-	-	9	130	-	-	-	-	-	-	6
140	-	-	-	-	-	-	8	140	-	-	-	-	-	-	6
145	-	-	-	-	-	-	8	145	-	-	-	-	-	-	5

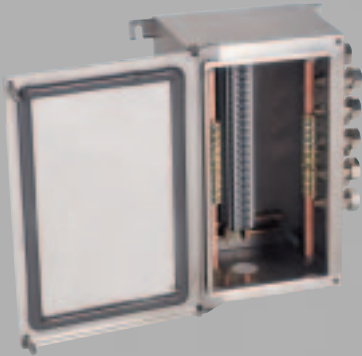
Enclosures 097045/46/47/48/49 - (370 x 560 x 200) mm															
Class Permis. power (W) Current in A	Ta + 40°C - T6 145							Class Permis. power (W) Current in A	Ta + 55°C - T5 97						
	Number of terminals								Number of terminals						
	2,5 mm ²	4 mm ²	6 mm ²	10mm ²	16 mm ²	35 mm ²	70 mm ²		2,5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	35 mm ²	70 mm ²
5	264	219	165	132	72	58	-	5	264	194	165	132	72	58	-
10	107	181	165	132	72	58	20	10	71	121	165	132	72	58	20
15	48	82	126	132	72	58	-	15	32	55	84	132	72	58	-
20	-	51	68	109	72	58	20	20	-	34	45	73	72	58	20
30	-	-	31	48	72	58	20	30	-	-	21	32	49	58	20
40	-	-	-	29	43	58	20	40	-	-	-	19	29	58	20
50	-	-	-	-	27	54	-	50	-	-	-	-	18	36	-
60	-	-	-	-	-	39	20	60	-	-	-	-	-	26	20
70	-	-	-	-	-	28	20	70	-	-	-	-	-	19	20
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130	-	-	-	-	-	-	13	130	-	-	-	-	-	-	9
140	-	-	-	-	-	-	11	140	-	-	-	-	-	-	7
145	-	-	-	-	-	-	11	145	-	-	-	-	-	-	7

Enclosures 097040/41/42/43/44 - (560 x 370 x 200) mm															
Class Permis. power (W) Current in A	Ta + 40°C - T6 145							Class Permis. power (W) Current in A	Ta + 55°C - T5 97						
	Number of terminals								Number of terminals						
	2,5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	35 mm ²	70 mm ²		2,5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	35mm ²	70 mm ²
5	250	205	124	100	80	48	-	5	277	194	124	100	80	48	-
10	107	181	124	100	80	48	22	10	71	121	124	100	80	48	22
15	48	82	124	100	80	48	-	15	32	55	84	100	80	48	-
20	-	51	68	100	80	48	22	20	-	34	45	73	80	48	22
30	-	-	31	48	80	48	22	30	-	-	21	32	49	48	22
40	-	-	-	29	43	48	22	40	-	-	-	19	29	48	22
50	-	-	-	-	27	48	-	50	-	-	-	-	18	36	-
60	-	-	-	-	-	39	22	60	-	-	-	-	-	26	22
70	-	-	-	-	-	28	22	70	-	-	-	-	-	19	22
80	-	-	-	-	-	22	22	80	-	-	-	-	-	14	22
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140	-	-	-	-	-	-	11	140	-	-	-	-	-	-	7
145	-	-	-	-	-	-	11	145	-	-	-	-	-	-	7

A complete and practical range

ATX offers a complete range of IP66 boxes and enclosures with an excellent corrosion resistance

in temperatures ranging from - 40°C to + 70°C.



Instrumentation
EEx "e" and EEx "i"



Junction
EEx "e" and EEx "i"

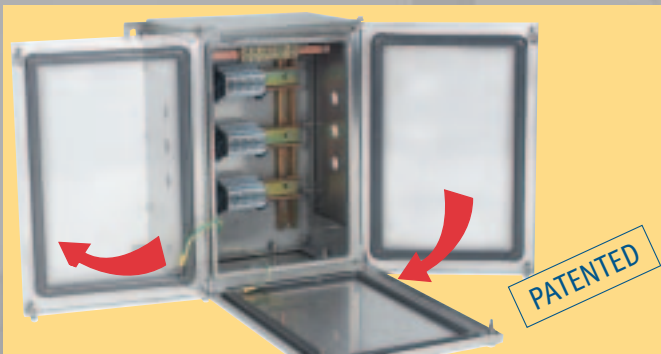


Medium voltage 10 kV



EEx "ed"
panel

Many installation benefits



Reversible door, opens to 210° top/bottom left/right in 30 seconds by means of removable hinges that can be adapted to all positions.



Removable padlock device



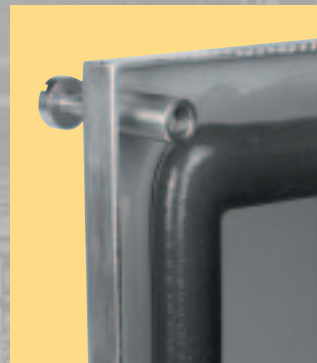
316 L stainless steel captive screws



Reversible antivibration mounting brackets in the top, bottom or side positions



M8 feedthrough earth

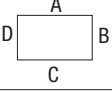





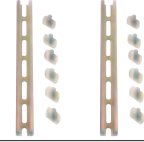
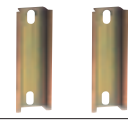
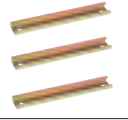


Polyurethane seal



Gland plate with neoprene seal

Selection chart for catalogue numbers and accessories

 Dimensions in mm Height x Width	  Depth			 Number of gland plates	 Back plate	 Full chassis (--) Number of crosspieces		 Set of 2 side rails (l in mm)		 Set of 10 crosspieces Symmetrical rail Ht.15 mm (l mm)		 Set of 10 crosspieces Asymmetrical rail			
	95mm Box	200mm Enclosure	300mm Enclosure			Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical		
						100 x 100	160 x 160	Rail crosspiece position		Position		Position		Position (l in mm)	
						097277	097278	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical
120 x 120	097000			(100 x 100)	097277				(100)	097246					
120 x 180	097001			(100 x 160)	097278				(160)	097247					
180 x 180	097002			(160 x 160)	097279			(200)	(160)	097247	(170)	(210)	(170)		
220 x 260	097003			(160 x 200)	097280	097210 (1)	097219 (2)	097231	097230	097241	097240	097251	097250		
220 x 370		097010*		0					(160)						
		097011		1 (C)	097281	097211 (1)	097220 (2)	097232	097230	097242	097240	097252	097250		
		097012		2 (A.C)	(160x310)			(310)		(320)	(170)	(320)	(170)		
370 x 260		097020		0											
		097021		1 (C)											
		097022		2 (A.C)	097282	097221 (3)	097212 (2)	097231	097232	097241	097242	097251	097252		
		097023		3 (B.C.D)	(310x200)			(200)	(310)	(210)	(320)	(210)	(320)		
		097024		4 (A.B.C.D)											
260 x 370		097025		0											
		097026		1 (C)	(310x200)			(310)	(200)	(320)	(210)	(320)	(210)		
		097027		2 (A.C)	097282	097212 (2)	097221 (3)	097232	097231	097242	097241	097252	097251		
370 x 370		097030	097080	0											
		097031	097081	1 (C)											
		097032	097082	2 (A.C)	097283	097213 (3)	097213 (3)	097232	097232	097242	097242	097252	097252		
		097033	097083	3 (B.C.D)	(310x310)			(310)	(310)	(320)	(320)	(320)	(320)		
		097034	097084	4 (A.B.C.D)											
560 x 370		097040	097090	0											
		097041	097091	1 (C)											
		097042	097092	2 (A.C)	097284	097222 (4)	097214 (3)	097232	097233	097242	097243	097252	097253		
		097043	097093	3 (B.C.D)	(500x310)			(310)	(500)	(320)	(510)	(320)	(510)		
		097044	097094	4 (A.B.C.D)											
370 x 560		097045	097095	0											
		097046	097096	1 (C)											
		097047	097097	2 (A.C)	097284	097214 (3)	097222 (4)	097233	097232	097243	097242	097253	097252		
		097048	097098	3 (B.C.D)	(500x310)			(500)	(310)	(510)	(320)	(510)	(320)		
		097049	097099	4 (A.B.C.D)											
750 x 370		097050	097100	0											
		097051	097101	1 (C)											
		097052	097102	2 (A.C)	097285	097223 (6)	097215 (3)	097232	097234	097242	097244	097252	097254		
		097053	097103	3 (B.C.D)	(690x310)			(310)	(690)	(320)	(700)	(320)	(700)		
		097054	097104	4 (A.B.C.D)											
370 x 750		097055	097105	0											
		097056	097106	1 (C)											
		097057	097107	2 (A.C)	097285	097215 (3)	097223 (6)	097234	097232	097244	097242	097254	097252		
		097058	097108	3 (B.C.D)	(690x310)			(690)	(310)	(700)	(320)	(700)	(320)		
		097059	097109	4 (A.B.C.D)											
560 x 560		097060	097110	0											
		097061	097111	1 (C)											
		097062	097112	2 (A.C)	097286	097216 (4)	097216 (4)	097233	097233	097243	097243	097253	097253		
		097063	097113	3 (B.C.D)	(500x500)			(500)	(500)	(510)	(510)	(510)	(510)		
		097064	097114	4 (A.B.C.D)											
750 x 560		097070	097120	0											
		097071	097121	1 (C)											
		097072	097122	2 (A.C)	097287	097224 (6)	097217 (4)	097233	097234	097243	097244	097253	097254		
		097073	097123	3 (B.C.D)	(690x500)			(500)	(690)	(510)	(700)	(510)	(700)		
		097074	097124	4 (A.B.C.D)											
560 x 750		097075	097125	0											
		097076	097126	1 (C)											
		097077	097127	2 (A.C)	097287	097217 (4)	097224 (6)	097234	097233	097244	097243	097254	097253		
		097078	097128	3 (B.C.D)	(690x500)			(690)	(500)	(700)	(510)	(700)	(510)		
		097079	097129	4 (A.B.C.D)											
1130 x 750			097130	0	097288	097218	097225 (6)	097234	097235	097244	097245	097254	097255		
					(1070x690)	(10)		(690)	(1070)	(700)	(1080)	(700)	(1080)		

* 097010 = 150 m/m Self-adhesive pocket for documents : 0972 63 enclosures from 307 x 260 (mm)

0972 64 enclosures from 560 x 370 (mm)

Part number in bold : fast moving references

Set of 2 copper bars (l in mm)		Kit						Conversion kit door to cover	Padlocking device	Joining kit (total thickness in mm) thickness. 9 mm				Additional gland plate (3 mm + seal)			
Position		Connectors 1.5/4mm ²	Connectors 6/16mm ²	of 2 pillars height 100mm	of 2 pillars height 50mm	Hinge	Enclosure depth 200			Enclosure depth 300		Enclosure depth 200		Enclosure depth 300			
Horizontal	Vertical						A/C			B/D	A/C	B/D	A/C	B/D	A/C	B/D	
(200)	(160)																
097271	097270	097203	097204	097206	097207	097201		097209					097306	097305			
097272 (310)	097270 (160)	097203	097204	097206	097207	097201		097209	097312				097292				
097271 (200)	097272 (310)					(f)	097202	097209	097310	097311			097290	097291			
(310)	(200)					(f)	097202	097209	097312				097292				
097272 (310)	097272 (310)	097203	097204	097206	097207	(f)	097202	097209	097312	097311	097318	097317	097292	097291	097299	097298	
097272 (310)	097273 (500)	097203	097204	097206	097207	(f)	097202	097209	097312	097313	097318	097319	097292	097293	097299	097300	
097273 (500)	097272 (310)	097203	097204	097206	097207	(f)	097202	097209	097314	097311	097320	097317	097294	097291	097301	097298	
097272 (310)	097274 (690)	097203	097204	097206	097207	(f)	097202	097209	097312	097316	097318	097321	097292	097295	097299	097302	
097274 (690)	097272 (310)	097203	097204	097206	097207	(f)	097202	097209	097316	097311	097322	097317	097296	097291	097303	097298	
097273 (500)	097273 (500)	097203	097204	097206	097207	(f)	097202	097209	097314	097313	097320	097319	097294	097293	097301	097300	
097273 (500)	097274 (690)	097203	097204	097206	097207	(f)	097202	097209	097314	097315	097320	97321	097294	097295	097301	097302	
097274 (690)	097273 (500)	097203	097204	097206	097207	(f)	097202	097209	097316	097313	097322	097319	097296	097293	097303	097300	
097274 (690)	097275 (1070)	097203	097204		097207	(f)		097209									

(f) hinges supplied

Transformers and power supplies



Série SDN



Série SDP

The Sola/Hevi-Duty catalogue includes a complete range of transformers and power supplies, certified to North American standards (NEC and CEC) bearing the CE mark. These products are designed for industrial applications and installations in explosive atmospheres.

SDN serie (for mounting on DIN rail TS35 / 7.5 or TS35 /15)

- Approved for use in potentially explosive atmospheres according to NEC and CEC: Class 1, zone 2
- Approved for use in potentially explosive atmospheres according to IEC 60079 15 : Ex nC II T3
- Conforming to standard EN 61000-3-2
- Single phase version: input voltage (automatic voltage selection) 115/230 V~, 50/60 Hz
- Output voltage range 06 to 40 A: 5, 10, 12, 24, 48 ± 12V

Catalogue numbers

Dimensions mm	DC output voltage	Output amp	Supply voltage	Supply amp	Inrush current normal operation	Residual ripples/peaks	Sola catalogue numbers
124 x 50 x 116	24 V 22.5-28.5 V adjustable	2.5 (60W)	115/230 V~ automatic selection	1.3 A / 0.70 A	< 25 A	< 50 m V peak to peak	SDN2.5-24-100P
124 x 65 x 116		4 A (100 W)		2.6 A / 1.4 A			SDN4-24-100P
124 x 65 x 116		5 A (120 W)		2.6 A / 1.4 A			SDN5-24-100P
124 x 83 x 116		10 A (240W)		6 A / 2.8 A			SDN10-24-100P
124 x 175 x 116		20 A (480W)		12 A / 6 A			SDN20-24-100P

SDP serie (for mounting on DIN rail TS35 / 7.5 or TS35 /15)

- Adjustable output voltage
- Designed and protected against overloads, overvoltages and short-circuits
- Low level of electromagnetic disturbance

Catalogue numbers

Dimensions mm	DC output voltage	Output amp	Supply voltage	Supply amp	Inrush current normal operation	Residual ripples/peaks	Sola catalogue numbers
75 x 22.8 x 96.7	24-28 V	0.6 A	85-264 V~ 90-375 V~	0.4 A / 0.25 A	< 35 A	< 50 m V peak to peak	SDP06-24-100T
	24-28 V	1.3 A		0.7 A / 0.4 A			SDP1-24-100T
	24-28 V	2.1 A		1.1 A / 0.7 A			SDP2-24-100T
75 x 45 x 91	5-5.5 V	5 A		0.6 A / 0.37 A			SDP5-5-100T
	10-12 V	2.5 A		0.66 A / 0.4 A			SDP2-12-100T
	12-15 V	3.5 A		1.1 A / 0.7 A			SDP3-15-100T
75 x 72.5 x 96.7	48-56 V	1 A	1.1 A / 0.7 A	SDP1-48-100T			
	24-28 V	4.2 A	2.2 A / 1.2 A	SDP4-24-100T			

Transformers for EEx “d” 50 to 500 VA equipment (see page 193)

For more information, contact your local representative or visit the website of sola-hevi-duty :

New: choice of materials, simplified installation and maintenance

Choice of four materials: many applications



Polyamide



316 L stainless steel



Aluminium



Polyester

One single component type: simplification

To simplify control station installation and maintenance, ATX offers you new components which are compatible with all box types.



Multi-LED indicator unit

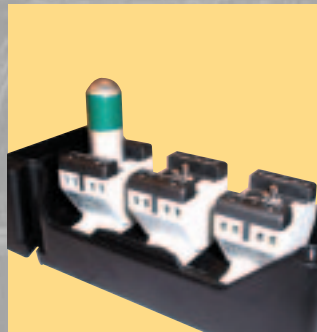


4-pole switch

Complete or pre-drilled polyamide control stations: easy to use



Highly visible marking



Easy access



Tamperproof cover:
"Safety Plus"



Quick fixing:
clip-in fastening

Control stations, switches, intrinsically safe relays and terminals

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Choice of control stations

Polyamide 316 L stainless steel Aluminium Polyester



Resistance to

• Hydrocarbons	High	High	High	High
• Alkalines	High	High	Medium	Good
• Alcohol	Good	High	High	High
• Acids	Medium	High	High	High
• Temperature	- 20°C + 55°C	- 40°C + 70°C	- 55°C + 60°C	- 55°C + 60°C
• Impact	IK09 - 10 joules	IK10 - 20 joules	IK10 - 20 joules	IK10 - 20 joules

Key :

High	Good	Medium
------	------	--------

When choosing control stations, it is important to take account of the resistance of enclosures with regards to the local climate, whether installation is indoors or outdoors, and the site location (offshore, coastal, onshore, etc). Consideration should also be given to any specific mechanical stresses or chemicals

constraints as well as the type of industry involved (petrochemicals, chemical, pharmaceutical, industrial premises, food industries, etc). Resistance to chemical products, mechanical stress or temperature variations therefore constitute the 3 main criteria for choosing control stations.

4 materials and 1 single component type

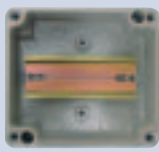



To simplify specification, installation, maintenance, and therefore choice, ATX offers you 4 ranges of enclosures using a single type of components perfectly adapted to all site conditions constraints.

TECHNICAL DATA

Boxes

- Boxes are supplied fitted with a DIN rail to make installation easier. The DIN rails are either only vertical or horizontal, depending on the material selected.

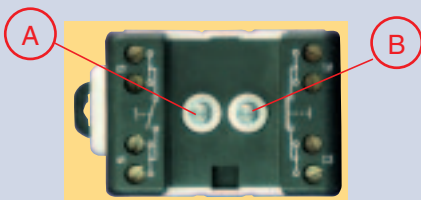
DIN rail position	Material			
	Polyamide	316 L stainless steel	Aluminium	Polyester
Horizontal				
Vertical				

Components

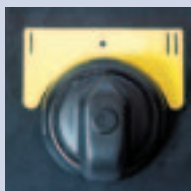
- The contact blocks, indicators, changeover selector switches, double pole switches, 4-pole control and load break switches can be mounted on either vertical or horizontal DIN rails.
- Indicator lens units, push-buttons, emergency stop buttons and key switch buttons can be used on boxes fitted with either vertical or horizontal DIN rails.
- **Ammeters can only be mounted on vertical rails.**
- **Rotating switch handle have two catalogue numbers depending on whether they actuate a component fixed on a vertical or horizontal rail.**

Action of switch handles on electric contact blocks

Position of contact block on the vertical rail

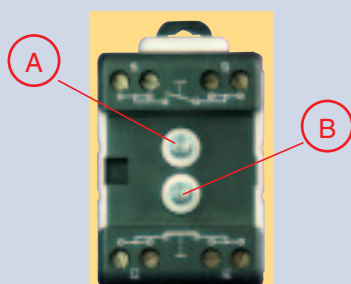


Switch handle action

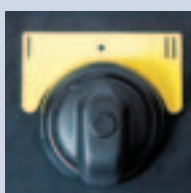


On I makes contact with B
On II makes contact with A

Position of contact block on the horizontal rail



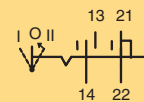
Switch handle action



On I makes contact with B
On II makes contact with A

Application example:

Motor control with 3-position switch handle and NC-NO contacts



- Switch handle in **position II** with automatic return:

- "NO" contact 13-14 closed
- "NC" contact 21-22 remains closed
- **starting coil latches**

- Switch handle in **position I**:

- "NC" latching contact 21-22 opened
- "NO" contact 13-14 remains opened
- **motor stops**



0986 03

0986 05

0986 12

Size 1 complete control stations

- Polyamide compact box and cover (90 x 104 mm)
- 2 x M20 clearance entries at the bottom
- Supplied with 1 polyamide cable gland (Ø 6.5 to Ø 14.5) and 1 plug
- 1 earth terminal block 2 x 2.5 mm²
- White self-adhesive dilophane identification label 58 x 18 mm
- A2 stainless steel fast multi-threaded screw (1 1/2 turn)
- Contact components fixed to the base of the box

Catalogue numbers

	Weight (kg)	Volume (dm ³)	Cat. No.	Pack
1 push-button with red (0), green (I), yellow and white inserts NO + NC contacts	0.475	2	0986 03	1
1 black mushroom-head button, spring-return, NO + NC contacts	0.475	2	0986 04	1
1 red "EMERGENCY STOP" mushroom-head button, push-pull NO + NC contacts	0.475	2	0986 05	1
1 red "EMERGENCY STOP" mushroom-head button, key-release NO + NC contacts	0.467	2	0986 06	1
1 key switch button 2 positions retractable in the initial position lockable in the initial position NO + NC contacts	0.463	2	0986 07	1
16 A double pole switch 0 - I padlockable in position 0	0.538	2	0986 08*	1
1 x 16 A single pole changeover switch (I-II) padlockable in position "I"	0.538	2	0986 14*	1
1 selector switch with 2 fixed positions 0 - I ; NO + NC contacts	0.453	2	0986 09	1
1 selector switch with 3 positions I - 0 - II ; 2 NO contacts	0.453	2	0986 10	1
1 selector switch 3 positions I - 0 - II; with spring return from II to 0 NO + NC contacts	0.453	2	0986 11	1
1 green multiled indicator	0.465	2	0986 12	1
1 red multiled indicator	0.465	2	0986 13	1

* Two cable glands

Accessories

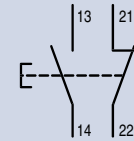
- ATX keys for push-buttons and emergency stop buttons (see page 196)
- Assembly key for actuator (see page 196)
- Brass earthing plate (see page 196)

Cable glands for armoured cable (see pages 252-262)

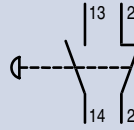
Part number in bold : fast moving references

Connection diagrams :

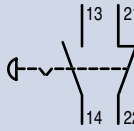
0986 03



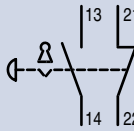
0986 04



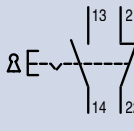
0986 05



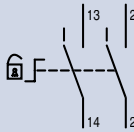
0986 06



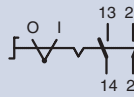
0986 07



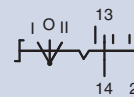
0986 08



0986 09



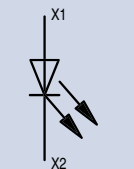
0986 10



0986 11



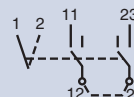
0986 12



0986 13



0986 14



5 KEY FEATURES

Zones 1 & 2 - 21 & 22		ATEX	IEC	EC	II 2G/D
EEx "ed"	T6	T = + 55°C	IP66		IK09

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive - 94/9 EC - Standards EN 50014 - 18 - 19
 - EC 0081 Ex II 2 G for gas EEx ed IIC T6
 - EC 0081 Ex II 2 D - T = + 55°C for dust
- According to IEC :
 - Conforming to standards IEC 60079 - 0/1/7 Ex ed IIC T6
 - DIPA 21 TA = + 55°C

Certification :

- Approved type PCe
- CENELEC LCIE 00 ATEX 6047
- IEC LCIE Ex.00.017
- **C** E declaration of conformity No. 50221
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK09 mechanical withstand according to EN 50102

Operating temperature :

- 20°C to + 55°C

Anticorrosion and climate protection : see page G50

Components for control stations :

Reference insulation voltage	690 V			
Reference operating voltage	250 V	250 V	110 V	24 V 230 V
Category of use	AC 12	AC 15	DC 13	DC 13
Rated operating current	16 A	10 A	0.5 A	1 A 10 A
Rated current I_{the}	16 A / + 40°C, 11 A / + 60°C			

• Actuators

Reference insulation voltage	300 V	
Reference operating voltage	AC 24 V, 48 V, 110 V, 230 V DC 24 V, 48 V	
Consumption	≤ 1 W	
Indicators	multi LED	

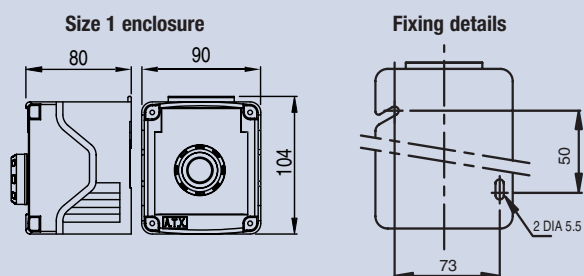
• Single pole and double pole changeover selector switch

Breaking capacity (in accordance with AC 15/DC 13)		
240 V ~ 6 A	415 V ~ 5 A	660 V ~ 2.5 A
380 V ~ 6 A	500 V ~ 4 A	

• Double pole 16 A switch

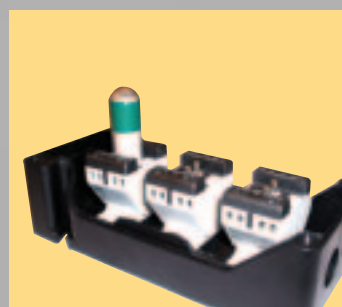
Insulation voltage	750 V	
Operating voltage	690 V	415 V
Maximum current	16 A	16 A
Category of use	AC-1	AC-15

Dimensions (mm) :



Very quick
fixing

Clip in



Easily accessible



Tamperproof cover:
"Safety Plus"



One and a half
turn screw fixing



Highly visible
marking

A.T.X.®

Size 2 and 3 polyamide complete control stations increased safety



Size 2 and 3 complete control stations

- Polyamide compact box and cover
- 2 x M20 clearance entries at the bottom
- Supplied with 1 polyamide cable gland (Ø 6.5 to Ø 14.5) and 1 plug
- 1 earth terminal block 2 x 2.5 mm²
- Contact components fixed to the base of the box
- White self-adhesive dilophane identification label 58 x 18 mm
- A2 stainless steel fast multi-threaded screw (1 1/2 turn)

Size 2 (90 x 149 mm)

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
2 push-buttons with red (0), green (I), yellow and white inserts NO + NC	0.610	2	0986 15	1
1 Push-button with red (0), green (I), yellow and white inserts NO + NC contacts 1 red EMERGENCY STOP push-pull	0.634	2	0986 16	1
1 green multiled indicator NO + NC contacts push-button with red (0), green (I), yellow and white inserts	0.624	2	0986 17	1
1 red multiled indicator push-button with red (0), green (I), NO + NC contacts yellow and white inserts	0.624	2	0986 18	1
1 ammeter 48 x 48 1A CT 3 FLC	0.556	2	0986 19	1

Size 3 (90 x 194 mm)

3 push-buttons with red (0), green (I), yellow and white inserts NO + NC contacts for each push-button	0.769	2	0986 20	1
1 green multiled indicator 2 push-buttons with red (0), green (I), yellow and white inserts NO + NC contacts for each push-button	0.783	2	0986 21	1
1 red multiled indicator 2 push-buttons with red (0), green (I), yellow and white inserts NO + NC contacts for each push-button	0.783	2	0986 22	1
1 ammeter 48 x 48 1A CT 3 IN 2 push-buttons with red (0), green (I), yellow and white inserts NO + NC contacts for each push-button	0.800	2	0986 23	1
1 ammeter 48 x 48 1A CT 3 FLC 1 selector switch with 3 positions I - 0 - II with spring return from II to 0 ; NO + NC contacts	0.816	2	0986 24	1

Accessories : including keys (see page 196)

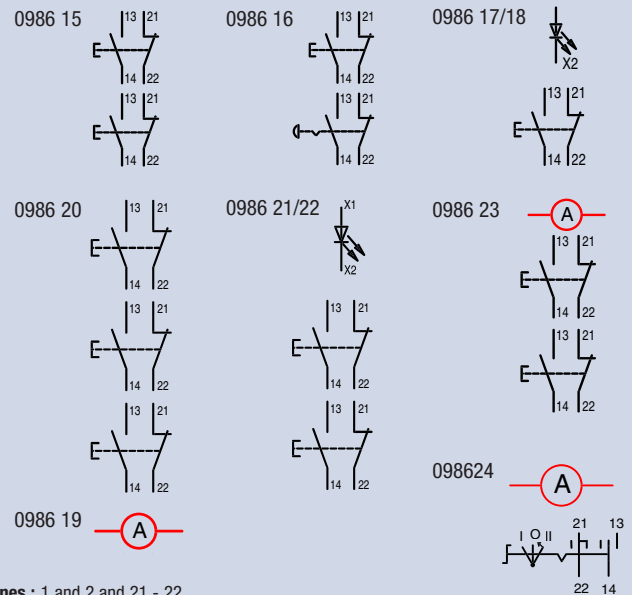
Cable glands for armoured cable (see pages 252-262)

Part number in bold : fast moving references

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2G/D
EEx ed IIC	T6	T = + 55°C	IP66	IK 09

TECHNICAL DATA

Connection diagrams :



Zones : 1 and 2 and 21 - 22

Classification :

- According to CENELEC:
 - Conforming to ATEX Directive - 94/9 EC - Standards EN 50014 - 18 - 19
 - EC 0081 II 2 G for gas EEx ed IIC T6
 - EC 0081 II 2 D - T = + 55°C for dust
- According to IEC
 - Conforming to standards IEC 60079 - 0/1/7 Ex ed IIC T6
 - DIPA 21 TA = + 55°C

Certification :

- Approved type PCe
- CENELEC LCIE 00 ATEX 6047
- IEC LCIE Ex.00.017
- declaration of conformity No. 50221
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 (combustible dust)

Protection index :

- IP66 according to EN 60529 and IEC 60529;
- IK09 mechanical withstand according to EN 50102

Operating temperature :

- 20°C to + 55°C

Anticorrosion and climate protection : see page G50

• Contact components : positive break contact

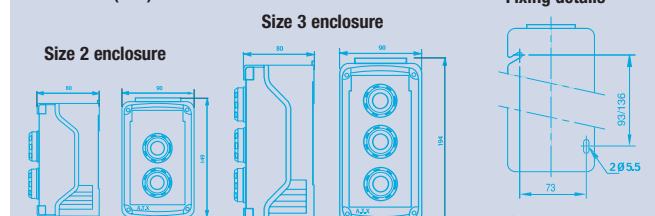
Reference insulation VOLTAGE	690 V				
Reference operating VOLTAGE	250 V	250 V	110 V	24 V	230 V
Category of use	AC 12	AC 15	DC 13	DC 13	
Rated operating current	16 A	10 A	0.5 A	1 A	10 A
Rated current	16 A / + 40°C, 11 A / + 60°C				

• Indicators

Reference insulation VOLTAGE	300 V
Reference operating VOLTAGE	AC 24 V, 48 V, 110 V, 230 V DC 24 V, 48 V

Consumption	≤ 1 W
Indicators	multi LED

Dimensions (mm) :



Data sheet available on request



098600



0986 01



0986 02



0986 28



Components:
see pages 180 to 182

Size 1, 2 and 3 pre-drilled control stations with component fixed on the base

- Compact enclosure, polyamide body and cover
- 2 x M20 clearance entries at the bottom
- Supplied with earth terminals (2 x 2.5 mm²)
- White self-adhesive dilophane identification label 58 x 18 mm
- A2 stainless steel fast multi-threaded screw (1 1/2 turn)
- Contact components fixed to the base of the box on **integrated vertical DIN rail**

Catalogue numbers

Sizes	Pre-drilled cover	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
1	1 function	0.7	2.3	0986 00	1
2	2 functions	0.9	2.7	0986 01	1
3	3 functions	1	4.9	0986 02	1
2	1 function (for 4-pole switch 098821 to 32)	1	4.9	0986 25	1
3	1 functions (and 4-pole switch 098821 to 32) in bottom position	1	4.9	0986 26	1
3	1 inspection window for ammeter 48 x 48 (and 4-pole switch 098821 to 32)	1	4.9	0986 27	1
3	2 functions + 1 ammeter window	1	4.9	0986 28	1

Coupling everal enclosures: additional of joining kit to pre-drilled stations

- Pre-drilled with 2 x M20 entries at the top and 2 x M20 entries at the bottom
- Polyamide compact box and cover
- 1 brass earth continuity plate
- White self-adhesive dilophane identification label 58 x 18 mm
- A2 stainless steel fast multi-threaded screw (1 and a half turn)
- Contact components fixed at the bottom of the box on integrated vertical DIN rail

Catalogue numbers

Size	Pre-drilled cover	Weight	Volume	Cat. No.	Pack
2	2 functions	0.9	2.7	0986 29	1
Joining kit 2 vertical control stations		0.07	0.09	0986 55	1

Cable glands for armoured cable (see pages 252-262)

Part number in bold : fast moving references

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2G/D
EEx ed IIC	T6	T = + 55°C	IP66	IK09

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Classification :

- According to CENELEC
 - Conforming to ATEX Directive - 94/9 EC - Standards EN 50014 - 18 - 19
 - EC 0081 II 2 G for gas EEx ed IIC T6
 - _ EEx edm IIC T6 for enclosures designed to take an ammeter
 - EC 0081 II 2 D - T = + 55°C for dust
- According to IEC :
 - Conforming to standards IEC 60079 - 0/1/7 Ex ed IIC T6
 - DIPA 21 TA = + 55°C - Ex edm IIC T6 for enclosures designed to accept an ammeter

Certification :

- Approved type PCe
- CENELEC LCIE 00 ATEX 6047
- IEC LCIE Ex.00.017
- declaration of conformity No. 50221
- Conforming to standards EN 50281-1-1 & IEC 61241-1-1 (combustible dust)

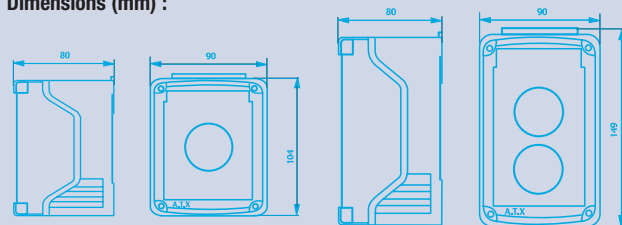
Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK09 mechanical withstand according to EN 50102

Operating temperature : - 20°C to + 55°C

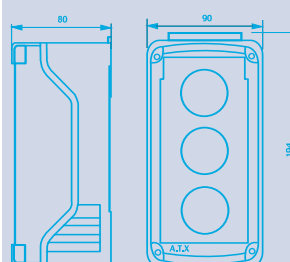
Anticorrosion and climate protection : see page G50

Dimensions (mm) :

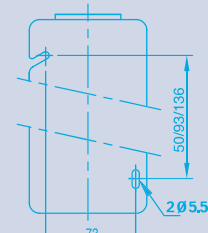


Size 1 enclosure

Size 2 enclosure



Size 3 enclosure



Fixing details

Data sheet available on request

316 L stainless steel complete and pre-drilled control stations

increased safety



0989 75



0987 00



0987 03



Components:
see pages 180 to 182

316 L stainless steel complete control stations

- 2 clearance entries for M20 at bottom for sizes 1 and 2
- 2 clearance entries for M25 at bottom for size 3
- External earth
- White self-adhesive dilophane identification label 58 x 18 mm
- Contact components fixed to the base of the box on **Din rail**
- Boxes delivered with 1 cable gland except 098972 (2 cable glands)

Size 1 (120 x 120 mm)

	Weight (kg)	Volume (dm ³)	Cat. No.	Pack
1 NC + NO push-button with red (O), green (I) inserts	1.2	2.4	0989 70	1
1 NC + NO red EMERGENCY STOP mushroom-head button, push-pull	1.2	2.4	0989 71	1
1 x 16 A double pole switch with 2 positions handle can be padlocked in position 0	1.2	2.4	0989 72	1
2 NC + NO push-buttons with red (O), green (I) inserts	1.3	2.4	0989 73	1

Size 2 (180 x 120 mm)

1 green indicator	1.8	3.3	0989 74	1
2 NC + NO push-buttons with red (O), green (I) inserts				
1 red indicator 2 NC + NO push-buttons with red (O), green (I) inserts	1.8	3.3	0989 75	1

316 L stainless steel pre-drilled control stations

- Boxes delivered without cable glands

Size 1 (120 x 120 mm)

	Weight	Volume	Cat. No.	Pack
Pre-drilled cover for 1 function (takes 1 x 4-pole switch 098821 to 32)	1	2.4	0987 00	1
Pre-drilled cover for 2 functions	1	2.4	0987 01	1

Size 2 (180 x 120 mm)

Pre-drilled cover for 2 functions (takes 1 x 4-pole switch 098821 to 32)	1.5	3.3	0987 02	1
Pre-drilled cover for 3 functions	1.5	3.3	0987 03	1

Size 3 (180 x 180 mm)

Pre-drilled cover for 4 functions (takes 2 x 4-pole switches 098821 to 32)	1.8	4.8	0987 04	1
Pre-drilled cover for 6 functions	1.8	4.8	0987 05	

Part number in bold : fast moving references

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2G/D
EEx ed IIC	T6	T = + 55°C	IP66	IK 10

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Classification:

- According to CENELEC:
 - Conforming to ATEX Directive - 94/9 EC - Standards EN 50014 - 18 - 19
 - EC 0081 II 2 G for gas EEx ed IIC T6
 - EC 0081 II 2 D - T = + 55°C for dust

According to IEC :

- Conforming to standards IEC 60079 - 0/1/7 Ex ed IIC T6
- DIPA 21 TA = + 55°C

Certification :

- Approved type JBe
- CENELEC LCIE 02 ATEX 6118X
- IEC LCIE Ex.02.010X
- declaration of conformity No. 50232
- Conforming to standards EN 50281-1-1 et IEC 61241-1-1 (combustible dust)

Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

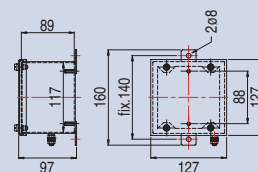
Operating temperature :

- 40°C to + 70°C

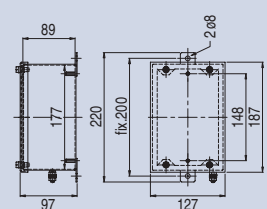
Anticorrosion and climate protection : see page G50

Dimensions (mm) :

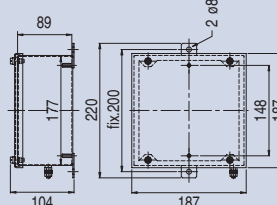
Size 1 box



Size 2 box



Size 3 box





0989 81



0987 06



0987 10



Components:
see pages 180 to 182

Aluminium complete control stations

- 2 clearance entries for M20 at bottom for sizes 1 and 2
- 2 clearance entries for M25 at bottom for size 3. External earth
- White self-adhesive dilophane identification label 58 x 18 mm
- Contact components fixed to the base of the box on **Din rail**
- Boxes delivered with 1 cable gland except 098978 (2 cable glands)

Size 1 (120 x 110 mm)

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
1 NC + NO push-button with red (0), green (I) inserts	1	2,3	0989 76	1
1 NC + NO red EMERGENCY STOP mushroom-head button, push-pull	1	2,3	0989 77	1
1 x 16 A double pole switch with 2 positions handle can be padlocked in position 0	1	2,3	0989 78	1
2 NC + NO push-buttons with red (0), green (I) inserts	1.1	2,3	0989 79	1

Size 3 (230 x 110 mm)

1 green indicator 2 NC + NO push-buttons with red (0), green (I) inserts	1.5	2.7	0989 80	1
1 red indicator 2 NC + NO push-buttons with red (0), green (I) inserts	1.5	2.7	0989 81	1

Aluminium pre-drilled control stations

- Boxes delivered without cable glands

Size 1 (120 x 110 mm)

	Weight	Volume	Cat. No.	Pack
Pre-drilled cover for 1 function (takes 1 x 4-pole switch 098821 to 32) Horizontal DIN rail	0.9	2,3	0987 06	1
Pre-drilled cover for 2 functions Horizontal DIN rail	0.9	2,3	0987 07	1

Size 2 (170 x 110 mm)

Pre-drilled cover for 2 functions (takes 1 x 4-pole switch 098821 to 32) Vertical DIN rail	1.2	2.7	0987 08	1
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Size 3 (230 x 110 mm)

Pre-drilled cover for 2 functions (takes 1 x 4-pole switch 098821 to 32) Vertical DIN rail	1.5	4.9	0987 09	1
Pre-drilled cover for 3 functions Vertical DIN rail	1.5	4.9	0987 10	1
Pre-drilled cover for 6 functions Horizontal DIN rail	1.5	4.9	0987 11	1

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2G/D
EEx ed IIC	T6	T = + 55°C	IP66	IK10

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive - 94/9 EC - Standards EN 50014 - 18 - 19
 - EC 0081 II 2 G for gas EEx ed IIC T6
 - EC 0081 II 2 D - T = + 55°C for dust

• According to IEC :

- Conforming to standards IEC 60079 - 0/1/7 Ex ed IIC T6
DIPA 21 TA = + 55°C

Certification :

- Approved type PCe
- CENELEC LCIE 00 ATEX 6047
- IEC LCIE Ex.00.017
- **C** declaration of conformity No. 50221
- Conforming to standards EN 50281-1-1 et IEC 61241-1-1 (combustible dust)

Protection index :

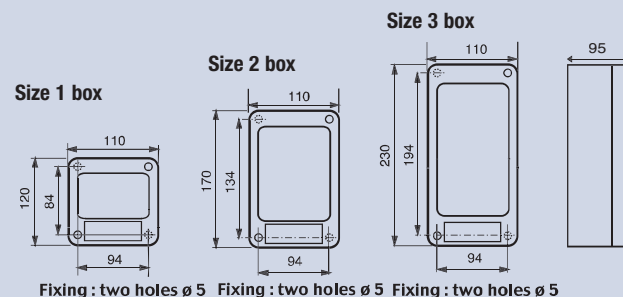
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical withstand according to EN 50102

Operating temperature :

- 55°C to + 60°C

Anticorrosion and climate protection : see page G50

Dimensions (mm) :

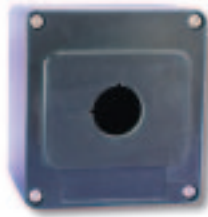


Data sheet available on request

Part number in bold : fast moving references



0989 87



0987 12



0987 16



Components:
see pages 180 to 182

Polyester complete control stations

- 2 clearance entries for cable gland M20 at bottom for sizes 1 and 2
- 2 clearance entries for cable gland M25 at bottom for size 3
- Supplied with earth continuity plate
- Contact components fixed to the base of the box on **Din rail**
- Boxes delivered with 1 cable gland except 098984 (2 cable glands)

Size 1 (120 x 110 mm)

	Weight	Volume	Cat. No.	Pack
Push-button with red (O), green (I) inserts NO + NC contacts	0.8	2.3	0989 82	1
1 red EMERGENCY STOP mushroom-head button, push-pull NO + NC contacts	0.8	2.3	0989 83	1
16 A double pole switch padlockable in position 0 ; NO + NC contacts	0.8	2.3	0989 84	1
Push-buttons with red (O), green (I) inserts NO + NC contacts	1.1	2.3	0989 85	1

Size 3 (230 x 110 mm)

1 green indicator push-buttons with red (O), green (I) inserts NO + NC	1	2.7	0989 86	1
1 red indicator push-buttons with red (O), green (I) inserts NO + NC	1	2.7	0989 87	1

Polyester pre-drilled control stations

Size 1 (120 x 110 mm horizontal DIN rail)

	Weight	Volume	Cat. No.	Pack
Pre-drilled cover for 1 function (takes 1 x 4-pole switch 098821 to 32)	0.7	2.3	0987 12	1
Pre-drilled cover for 2 functions	0.7	2.3	0987 13	1

Size 2 (170 x 110 mm)

Pre-drilled cover for 2 functions Vertical DIN rail (takes 1 x 4-pole switch)	0.9	2.7	0987 14	1
Pre-drilled cover for 3 functions Horizontal DIN rails	0.9	2.7	0987 19	1

Size 3 (230 x 110 mm)

Pre-drilled cover for 2 functions Vertical DIN rail (takes 1 x 4-pole switch 098821 to 32)	1	4.9	0987 15	1
Pre-drilled cover for 3 functions Vertical DIN rail	1	4.9	0987 16	1
Pre-drilled cover for 4 functions Vertical DIN rail	1	4.9	0987 17	1
Pre-drilled cover for 4 functions Horizontal DIN rails	1	4.9	0987 20	1
Pre-drilled cover for 6 functions Horizontal DIN rails	1	4.9	0987 18	1
Pre-drilled cover for 3 functions + mounted ammeter inspection window. Horizontal DIN rail	1	4.9	0987 21	1

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	UL	II 2G/D
EEx ed IIC	T6	T = + 55°C	IP66	IK10	

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive - 94/9 EC - Standards EN 50014 - 18 - 19
 - EC 0081 II 2 G for gas EEx ed IIC T6
 - EC 0081 II 2 D - T = + 55°C for dust

• According to IEC :

- Conforming to standards IEC 60079 - 0/1/7 Ex ed IIC T6
DIPA 21 TA = + 55°C

• According to UL :

- AEx ed IIC - T6
- UL: E 214068

Certification :

- Approved type PCe
- CENELEC LCIE 00 ATEX 6047
- IEC LCIE Ex.00.017
- **CE** declaration of conformity No. 50221
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 (combustible dust)

Protection index :

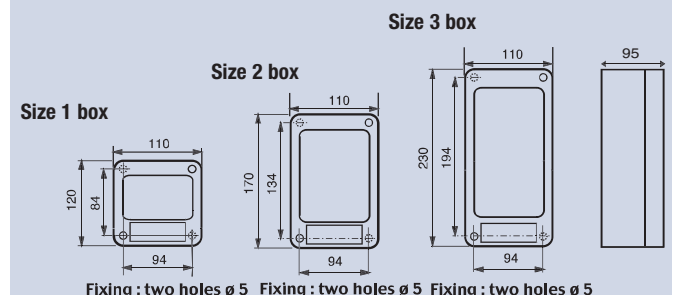
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical withstand according to EN 50102

Operating temperature :

- 55°C to + 60°C

Anticorrosion and climate protection : see page G50

Dimensions (mm) :



Polyester control stations, pre-drilled for 12 functions

increased safety



Polyester boxes

- Black box, for push-buttons, indicators, switches
- Complete functions to be fixed components
Supplied with Gravoply 63 x 18 mm identification label (yellow with black engraving)
- Internal earth : 2 x 4 mm² terminals

12 function box

- 2 threaded entries for M25 cable gland at bottom

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
12 functions	3.4	15	0962 64	1

Max. 6 double pole switches
Horizontal side by side switch mounting only
possible for single pole switches Cat. No. 098652/53

Components (see pages 189 to 193)

Please consult us for special options:

- Ammeters windows
- Other drilling configurations on the cover
- Other cable entries
- Mounting at the bottom of the box on DIN rail

Components (see pages 180 to 182 bottom of box and pages 189 à 192 door mounting)

Labels (see page 196)

Increased safety cable gland:

- Polyamide (see page 288)
- Metal (see page 258)
- For armoured cable (see pages 252-262)

Zones 1 & 2 & 21 - 22	ATEX	IEC	EC	II 2 G/D
EEx ed IIC	IP66	IK10		

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive - 94/9 EC - and to standards EN 50014-18-19
 - **CE** 0081 II 2 G for gas EEx ed IIC T (*)
 - **CE** 0081 II 2 D T = (*) for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1/7
 - Ex ed IIC t (*)
 - DIPA 21 TA = (*) for dust

T(*)

Class acc. to combinations	Surface temp for Ta = + 40°C
T6	85°C
T5	100°C
T4	135°C
T3	200°C

Certification :

- Approved type CAe
- CENELEC LCIE 02 ATEX 6248X
- IEC LCIE Ex 02.032X
- Declaration of conformity No. 50235
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1
“combustible dust”

Protection index :

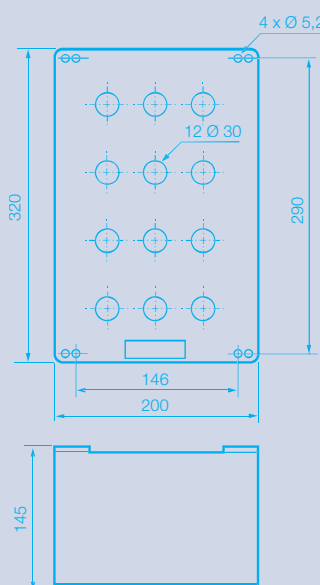
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical withstand according to EN 50102

Operating temperature :

- 30° to + 55°C

Anticorrosion and climate protection : see page G50

Dimensions (mm) :









Data sheet available on request

TECHNICAL DATA

Mounting components on Pre-drilled control stations

Boxes

- Boxes are supplied fitted with a DIN rail for easier installation. The DIN rails are either only vertical, or horizontal or vertical, depending on the material selected

DIN rail position	Material			
	Polyamide	Stainless steel 316 L	Aluminium	Polyester
Horizontal				
Vertical				

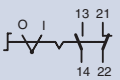
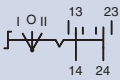
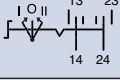
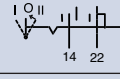
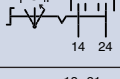


Components

- The contact blocks, indicators, changeover selector switches, double pole switches, 4-pole control and load break switches can be mounted on either vertical or horizontal DIN rails.
- Indicator lens units, push-buttons, emergency stop buttons and key switch buttons can be used on boxes fitted with either vertical or horizontal DIN rails.
- Ammeters can only be mounted on vertical rails**
- Rotating switch handle

IMPORTANT :

All rotating switch handles have two catalogue numbers depending on whether they actuate a component fixed on a vertical or horizontal rail.

Rotating switch handle selection guide :

Function	Connection	Components	Mounting on horizontal rail	Mounting on vertical rail
2 positions 0 - I		Switch handle NC + NO contact	0983 24 0981 02	0983 23 0981 02
3 positions I - 0 - II		Switch handle 2 NO contacts	0983 34 0981 00	0983 30 0981 00
3 positions I -> 0 <- II		Switch handle 2 NO contacts	0983 35 0981 00	0983 31 0981 00
3 positions I - 0 <- II		Switch handle NC + NO contact	0983 36 0981 02	0983 32 0981 02
3 positions I - 0 <- II		Switch handle 2 NO contacts	0983 36 0981 00	0983 32 0981 00
3 positions I -> 0 - II		Switch handle NC + NO contact	0983 37 0981 02	0983 33 0981 02
3 positions I -> 0 - II		Switch handle 2 NO contacts	0983 37 0981 00	0983 33 0981 00

Data sheet available on request



Indicators, push-buttons switch handles and contacts blocks

Supplied with 1 seal, 1 special nut and key

Push-button for mounting on a horizontal and vertical rail

	Weight (Kg)	Cat. No.	Pack
Push-button supplied with red, green, yellow and white inserts	0.046	0983 00	1
Red mushroom-head push-button, spring return	0.046	0985 01	1
Black mushroom-head push-button, spring return	0.046	0983 01	1
Red EMERGENCY STOP mushroom-head, key switch	0.046	0983 02	1
Red EMERGENCY STOP push-pull mushroom-head	0.046	0983 03	1
Impulse push-button Lockable in both positions key retractable in both positions	0.069	0983 20	1
Impulse push-button Lockable in the depressed position key retractable in the depressed position	0.069	0983 21	1
Impulse push-button Lockable in the initial position key retractable in the initial position	0.069	0983 22	1
Blanking plug	0.046	0983 38	1

Switch handle for mounting on a horizontal or vertical rail

	Weight (Kg)	Cat. No. Horizontal rail	Cat. No. Vertical rail	Pack
Black switch handle 2 positions 0 - I latching	0.033	0983 24	0983 23	1
Black switch handle 3 pos. I-0-II (I and II latching)	0.033	0983 34	0983 30	1
Black switch handle 3 pos. I-0-II (I and II spring return)	0.033	0983 35	0983 31	1
Black switch handle 3 positions I-0-II Spring return from II to 0	0.033	0983 36	0983 32	1
Black switch handle 3 positions I-0-II Spring return from I to 0	0.033	0983 37	0983 33	1

Contact components for mounting at the bottom of the box on a horizontal and vertical rail

	Weight (Kg)	Cat. No.	Pack
• Connection via 2 x 2.5 mm ² terminals			
2 NO contacts	0.09	0981 00	1
2 NC contacts	0.09	0981 01	1
1 NO + 1 NC contact	0.09	0981 02	1

Part number in bold : fast moving references



Ammeter 0986 51

Ferromagnetic ammeter

- Direct mounting on vertical rail
- Class 2.5 - Deviation 90°
- Red Adjustable index
- Standard square bezel, 48 x 48 mm
- Connection via 2 x 2.5 mm² terminals
- For use with current transformers

	Weight (kg)	Volume (dm ³)	Cat. No.	Pack
For 1 A C.T. 0-1-3 Flc	0.1	0.4	0986 51	1
For 1 A C.T. 0-1-5 Flc	0.1	0.4	0989 52	1
For 1 A C.T. 0-1-6 Flc	0.1	0.4	0989 53	1
For 5 A C.T. 0-1-3 Flc	0.1	0.4	0989 54	1
For 5 A C.T. 0-1-5 Flc	0.1	0.4	0989 55	1
For 5 A C.T. 0-1-6 Flc	0.1	0.4	0989 56	1

Ammeter cards

3 FLC 1 A CT		5 FLC 1 A CT		6 FLC 1 A CT	
Cat. No.	graduation	Cat. No.	graduation	Cat. No.	graduation
098861	0 5 15	098875	0 5 25	098889	0 5 30
098862	0 10 30	098876	0 10 50	098890	0 10 60
098863	0 15 45	098877	0 15 75	098891	0 15 90
098864	0 20 60	098878	0 20 100	098892	0 20 120
098865	0 30 90	098879	0 30 150	098893	0 30 180
098866	0 40 120	098880	0 40 200	098894	0 40 240
098867	0 50 150	098881	0 50 250	098895	0 50 300
098868	0 60 180	098882	0 60 300	098896	0 60 360
098869	0 75 225	098883	0 75 375	098897	0 75 450
098870	0 100 300	098884	0 100 500	098898	0 100 600
098871	0 125 375	098885	0 125 625	098899	0 125 750
098872	0 150 450	098886	0 150 750	098900	0 150 900
098873	0 200 600	098887	0 200 1000	098901	0 200 1200
098874	0 250 750	098888	0 250 1250	098902	0 250 1500

3 FLC 5 A CT		5 FLC 5 A CT		6 FLC 5 A CT	
Cat. No.	graduation	Cat. No.	graduation	Cat. No.	graduation
098903	0 5 15	098917	0 5 25	098931	0 5 30
098904	0 10 30	098918	0 10 50	098932	0 10 60
098905	0 15 45	098919	0 15 75	098933	0 15 90
098906	0 20 60	098920	0 20 100	098934	0 20 120
098907	0 30 90	098921	0 30 150	098935	0 30 180
098908	0 40 120	098922	0 40 200	098936	0 40 240
098909	0 50 150	098923	0 50 250	098937	0 50 300
098910	0 60 180	098924	0 60 300	098938	0 60 360
098911	0 75 225	098925	0 75 375	098939	0 75 450
098912	0 100 300	098926	0 100 500	098940	0 100 600
098913	0 125 375	098927	0 125 625	098941	0 125 750
098914	0 150 450	098928	0 150 750	098942	0 150 900
098915	0 200 600	098929	0 200 1000	098943	0 200 1200
098916	0 250 750	098930	0 250 1250	098944	0 250 15FLC

Zones 1 & 2 - 21 & 22 ATEX IEC UL EEx ed IIC or EEx em II

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Actuators, contact and indicators

- Approved type : AUX
- According to CENELEC : 0081 II2 G/D EEx ed IIC
LCIE: 00 ATEX 0002 U
- According to IEC : Ex ed IIC
LCIE: Ex 00.012 U
- According to UL : AEX e II
UL : E 214068

Operating temperature : - 50°C to + 60°C (ATEX - IEC); - 35°C to + 60°C (UL)

IP66 protection index (for actuators, indicators switch handles)

Contact components :

Reference insulation voltage	690 V			
Reference operating voltage	250 V	250 V	110 V	24 V 230 V
Category of use	AC 12	AC 15	DC 13	DC 13
Rated operating current	16 A	10 A	0.5 A	1 A 10 A
Rated current I _{the}	16 A / + 40°C, 11 A / + 60°C			

Contact materials : Ag Sh 02

Number of operations : 10⁶ for the contacts

Operational life : 10⁵ hours for the indicators

Connection to terminals : 2.5 mm²

Operating temperature : - 50°C to + 60°C

• Ammeters :

Zones 1 & 2 and authorised in an approved dustproof enclosure

- Approved type : C 48 D
- According to CENELEC 0081 II2 G EEx em II T6

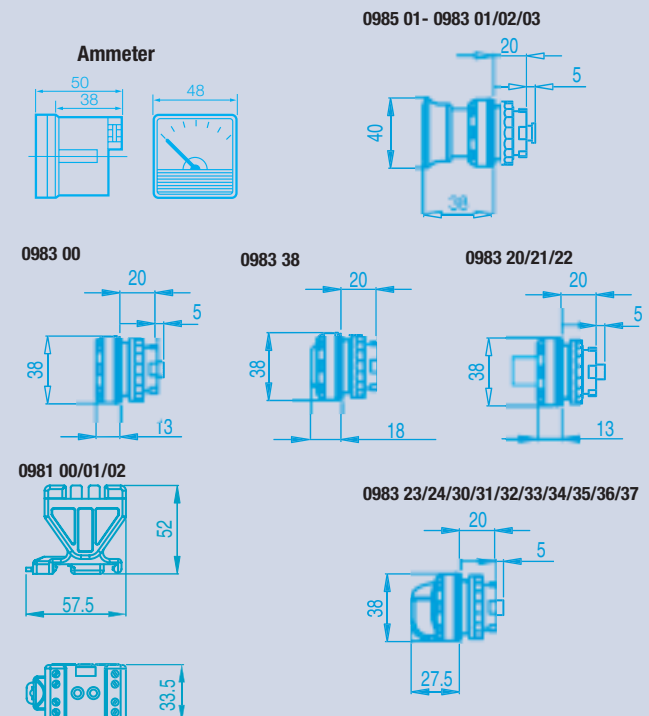
LCIE: 02 ATEX 0006 U

• According to IEC : Ex em II

LCIE: Ex 02.019 U

Operating temperature - 25°C to + 55°C

Dimensions (mm) :



Data sheet available on request

Part number in bold : fast moving references



0982 01



0986 52



0988 31

Indicators, switch handles and contact blocks

- Indicators for mounting at bottom of box on horizontal and vertical rail. **Supplied with coloured lens**
- Multi LED AC 24 V, 48 V, 110 V, 230 V; DC 24 V, 48 V

	Volume (dm ³)	Cat. No.	Pack
Red indicator	0.10	0982 01	1
Green indicator	0.10	0982 02	1
White indicator	0.10	0982 00	1
Yellow indicator	0.10	0982 04	1
Blue indicator	0.10	0982 03	1

Changeover switch for mounting on a vertical and horizontal rail

- Connection via 2 x 2.5 mm² terminals

Single pole 0 - II (handle 0986 58 not supplied)	0986 52	1
Single pole with stop I - 0 - II (0986 58 not supplied)	0986 53	1

16 A switch for mounting on a vertical and horizontal rail

Double pole 0 - I (handle 0986 58 not supplied)	0986 54	1
---	---------	---

Padlockable handle on horizontal or vertical rail for selector switch, changeover switch and 16 A switch

Switch handle	0986 58	1
---------------	----------------	---

Mounted by rotating handle by 90°

4-pole control and load break switches

(switch handles 0986 47 or 48 not supplied, see diagrams page 183)

Control switch 4 NO - 2 positions	0988 21	1
Control switch 2 NO + 2 NC - 2 positions	0988 22	1
Control switch 1 NC + 3 NO - 2 positions	0988 23	1
Control switch 3 NC + 1 NO - 2 positions	0988 24	1
Control switch 1 NO - 4 positions	0988 25	1
Control switch with 3 positions	0988 26	1
Control switch with 3 positions	0988 27	1
Control switch with 3 positions	0988 28	1
with automatic return from II to I		
Control switch with 3 positions	0988 29	1
with automatic return from II to 0		
Control switch with 5 positions	0988 30	1
Load break switch 4 NO - 2 positions	0988 31	1
Load break switch 3 NO + 1 NC - 2 positions	0988 32	1

Selector switch for 4-pole switch

- Depending on the mounting direction of the DIN rail

	Horizontal rail	Vertical rail	
Selector switch can be used for any of the 4-pole switch functions	0986 47	0986 48	1

Zones 1 & 2 - 21 & 22

ATEX

IEC

UL

EEx ed IIC

TECHNICAL DATA

- Components conforming to Directive 94/9 EC, standards EN 50014/18/19/28

• Contact and indicating components

Zones : 1 and 2 and 21 - 22

- Approved type : AUX
- According to CENELEC: 0081 II2 G/D EEx ed IIC or EEx e II
LCIE: 00 ATEX 0002 U
- According to IEC: Ex ed IIC or Ex e II
LCIE: Ex 00.012 U
- According to UL : AEX ed IIC or AEX e II
UL: E 214068

• Selector switches, changeover switches and 16 A switches

Zones 1 & 2 are authorised in an approved dustproof enclosure

- Approved type : 8008/2
 - According to CENELEC: II2 G EEx de IIC T6
PTB 00 ATEX 1111 U
- Operating temperature : - 55°C to + 40°C

• 4-pole control and load break switches

Zones 1 & 2 are authorised in an approved dustproof enclosure

- Approved type : 07-3331-1...
 - According to CENELEC: II2 G EEx de IIC T6
PTB 99 ATEX 1043 U
- Operating temperature - 50°C to + 60°C

• Padlockable handle (0986 58)

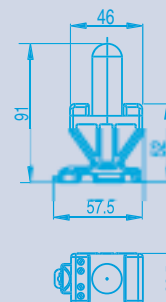
- Approved type : AUXe
- 03 ATEX 0012U (CENELEC)
- Ex 03.011U (IEC)

Protection index :

- IP66 (for actuators, indicators units and switch handles)

Dimensions (mm) :

0982 00/01/02/03/04



TECHNICAL DATA

• Indicators

Reference insulation voltage : 300 V
 Reference operating voltage : AC 24 V, 48 V, 110 V, 230 V
 DC 24 V, 48 V

Consumption : ≤ 1 W

Indicators : multi LED

• Single pole and double pole changeover selector switch

Breaking capacity

(according to AC 15/DC 13)

240 V ~6 A 415 V ~5 A 660 V ~2.5 A

380 V ~6 A 500 V ~4 A

• Double pole 16 A switch

Insulation voltage	750 V
Operating voltage	690 V 415 V
Maximum current	16 A 16 A
Category of use	AC-1 AC-15

• 4-pole control and load break switches

• Electrical characteristics

Insulation voltage	Control breaking capacity (auxiliary on/off switch)		
$U_p/660$ V	I_p/AC 15	400 V	10 A
$U_p/400$ V	I_p/AC 12	400 V	16 A
	I_p/DC 13	24 V	1 A
	I_{the}		16 A

• Nominal resistance to overvoltage

$U_{imp}/6$ KV

• Short-circuit current at 400 V

$I_p/4$ KA

• Short-circuit current

(max. power fuse NHGL)

16 A

• Rated thermal current

(+ 40°C) $I_{the}/16$ A

(+ 60°C) $I_{the}/11$ A

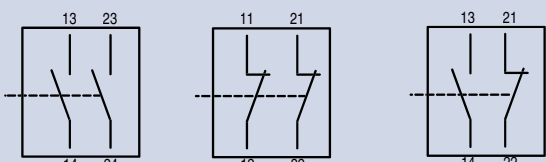
• Ammeter

1 max. 500 V, Fg 25 at 100 Hz, overload 1V In 5 seconds

Accuracy class 1.5, consumption 0.7 VA at In,

insulation 3 KV - 50 Hz 1 mn

• Connection diagrams for contact components:



0981 00

0981 01

0981 02

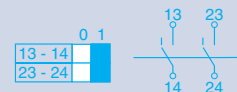
• Connection diagrams for changeover selector switch



0986 52

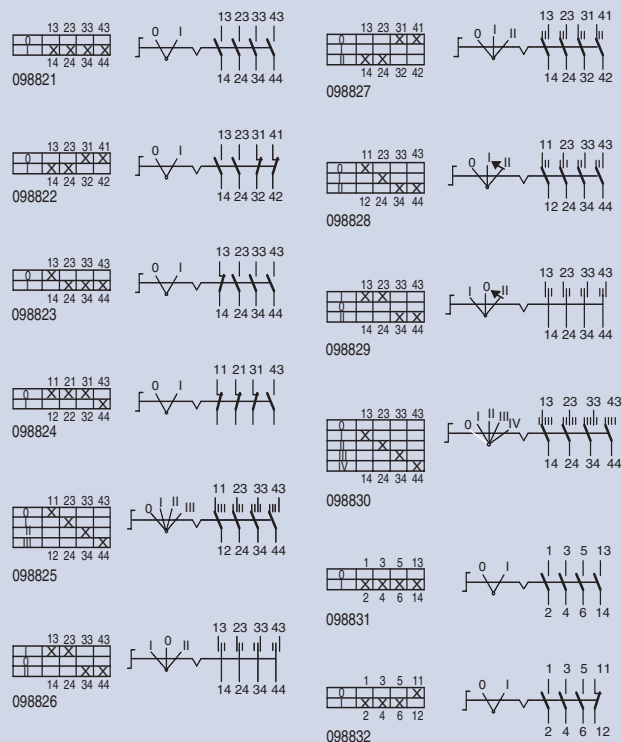
0986 53

• Connection diagrams for 16 A double pole switch



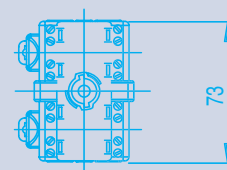
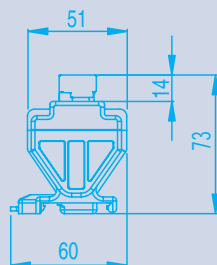
0986 54

Connection diagrams : 4-pole switches

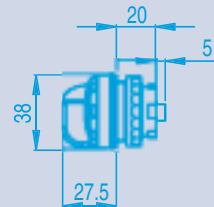


Dimensions (mm) :

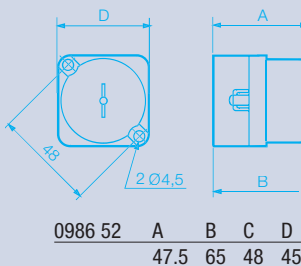
0988 21 to 32



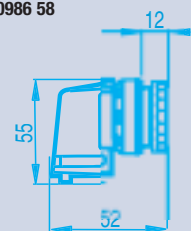
0986 47/48



0986 52/53/54



0986 58



Four materials available

Climate conditions, mechanical stresses or chemical constraints related to the type of industry require careful consideration on site. ATX offers complete ranges of control stations with

cabinets or enclosures which can be adapted to any installation requirement, available in four materials: stainless steel, aluminium, polyester and polyamide.

**316 L
stainless steel**



Aluminium



Polyester



Polyamide



For customised products : ATX quotation service

ATX offers you a wide range of combinations derived from standard products or made and wired to order from specifications, plans, drawings, etc.

Simply send your request to the ATX quotation service, via ATX distributors and agents.

E-mail: cotation@atx.fr

Fax: 33 (0) 1 48 63 77 82



Machining centre at your disposal

ATX places all its industrial expertise at your service, providing extremely accurate drilling and machining in a variety of materials (polyamide, stainless steel, aluminium, polyester, etc), as well

as mounting and internal wiring of electrical equipment, to create control stations and control your specifications panel conforming.



Drilling/threaded an aluminium enclosure



Stainless steel enclosure equipped and wired at the bottom of the box and on the door

.....
Five sizes available...



400 x 300

500 x 400

600 x 400

800 x 600

1 000 x 800

plus customised modular systems



Example of customised lighting control panels manufactured from "Marina" enclosures. ATX can also make distribution panels or switchboards and heat trace panels on request, as well as provide a quotation and drawings, if required, for customers approval.

A.T.X.[®]

ATX Marina enclosures increased safety



0964 65



0964 72

Black polyester enclosures

- Protective flange: one at the top and one at the bottom
- Interchangeable, padlockable locks
- Fasten with plastic double bar locks. Supplied with a key.
- 4 fixing lugs supplied. Doors mounted on hinges

Enclosures with plain door

Size	External dimensions Ht/Width/Depth (mm)	Lower aperture	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
1	400 x 300 x 200	No (2)	4.8	25	0959 57	1
2	500 x 400 x 200	Yes (1) (3)	6.2	51	0964 65	1
3	600 x 400 x 250	Yes (1) (3)	7.7	80	0964 71	1
4	800 x 600 x 300	No	18.3	190	0964 73	1
5	1000 x 800 x 300	No	23.6	313	0964 74	1

(1) For plate 114 x 322 (Cat. No. 0964 85 or 0964 86)

(2) On request: aperture for plate 130 x 264 (Cat. No. 0964 90)

(3) On request: without lower aperture

Enclosures with door apertures

Size	Dimensions (mm) Ht x Width x Depth	Lower aperture	No. of door apertures	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
2	500 x 400 x 200	Yes	3 (2)	6.4	51	0964 66	1
3	600 x 400 x 250	Yes	4 (2)	8.5	80	0964 72	1

(2) For plate 130 x 264

Accessories

“Telemecanic” perforated plate (zinc bichromate)

For enclosure (ht. x width in mm)	Dimensions (mm)	Weight (Kg)	Cat. No.	Pack
400 x 300	350 x 250	1.2	0964 52	1
500 x 400	450 x 350	1.1	0964 53	1
600 x 400	550 x 350	1.5	0964 54	1
800 x 600	750 x 550	3	0964 55	1
1000 x 800	950 x 750	5.5	0964 56	1

Set of 2 uprights

For enclosure (height in mm)	Length (in mm)	Cat. No.	Pack
400	337	0964 75	5
500	437	0964 76	5
600	537	0964 77	5
800	737	0964 78	5
1000	937	0964 79	5

Crosspieces

For enclosure (width in mm)	Crosspiece width (in mm)	Cat. No.	Pack
300	243	0964 81	10
400	343	0964 82	10
600	543	0964 83	10
800	743	0964 84	10

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx e II/Ex eia or eib IIC	T3 to T6	IP66	IK10	

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-19-20
 - EC 0081 II 2 G for gas EEx e II/Ex eia or eib IIC/EEx ia or ib IIC
 - T3 to T6 depending on the components installed in the enclosure
 - EC 0081 II 2 D T = 85°C for dust
- According to IEC
 - Conforming to standards IEC 60079-0/7/11
 - Ex e II/Ex eia or eib IIC/EX ia or ib IIC
 - T3 to T6 depending on the components installed in the enclosure

Certification :

- Type CAe
- CENELEC LCIE 02 ATEX 6248X
- IEC LCIE Ex 02.032X
- declaration of conformity No. 50235
- Conforming to standard EN 50281-1-1 “combustible dust”

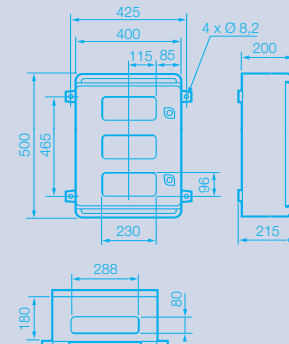
Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

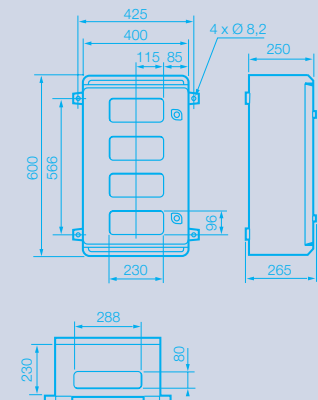
Operating temperature : - 40°C to + 55°C

Dimensions (mm) :

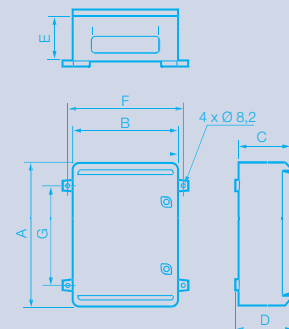
0964 65/66



0964 71/72



0959 57 - 0964 73/74



Cat. number	External dimension (mm)						Fitting	
	A	B	C	D	E	F	G	
0959 57	405	305	200	215	180	326	336	
0964 73	828	618	300	315	280	658	768	
0964 74	1028	818	300	315	280	858	968	

Data sheet available on request

Part number in bold : fast moving references



0964 85



0964 90



0964 89



Example of earth continuity

Cable entry plates

- Black polyester. Supplied with fixing screws

Plain plate (drilled on request)

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
Plate 130 x 264	0.3	1.3	0964 90	1
Plate 114 x 322	0.4	1.4	0964 85	1

Pre-drilled plate (for cable gland)

17 clearance holes for M20 and 3 holes for M25

0.3 1.4 0964 86 1

Front plates for mounting on the door

- Black polyester. Supplied with fixing screws

Plain plate

	Weight	Volume	Cat. No.	Pack
(Drilled on request)	0.4	1.2	0964 90	1

Pre-drilled plate with 2 double holes

- Fixed on one of the enclosure's central apertures

For 2 double pole RCBOs 0.4 1.2 0966 99 1

Pre-drilled plate with 2 holes

- Fixed on one of the enclosure's central apertures

For 2 triple-pole or 4-pole MCBs 0.4 1.2 0964 99 1

Pre-drilled plate with 4 holes for actuator + socket

For 4 push-buttons or indicators, and 1 flush-mounting socket outlet 16 A - 3P+E/3P + N+E, or 16 A 2P + E (with adaptor Cat. No. 0964 96) 0.3 0.8 0964 87 1

For 4 push-buttons or indicators, and 1 hole for flush-mounting socket outlet 32 A - 2 P + E/3 P + E/3 P + N + E 0.3 0.8 0964 88 1

Note: actuator for fixing on vertical DIN rails

Pre-drilled plate with 5 holes for actuator

	Weight	Volume	Cat. No.	Pack
For push-buttons or indicators	0.4	1.2	0964 95	1

Pre-drilled plate with 3 holes Ø 30

For 4-pole switch, 16 A switch, indicator, single pole changeover switch, push-button, double pole MCB 0.4 1.2 096489 1

Note: (1) rotary actuator, use the heads designed for vertical DIN rails

Note: (2) for double pole MCB must be mounted on the central aperture

Accessories

	Weight	Volume	Cat. No.	Pack
Plastic blanking plug for Ø 30 holes designed for buttons - rotary head and indicator	0.1	0.4	0983 38	1

For special options, please consult us

- Earth continuity plates all size drilled following specification

Part number in bold : fast moving references

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx e II/EEx eia or eib IIC	T3 to T6	IP66	IK10	

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Classification :

- According to CENELEC :

– Conforming to ATEX Directive 94/9 EC and standards EN 50014-19-20

– EC 0081 II 2 G : for gas EEx e II/EEx eia or eib IIC/EEx ia or ib IIC

T3 to T6 depending on the components installed in the enclosure

– EC 0081 II 2 D T = 85°C: for dust

- According to IEC :

– Conforming to standards IEC 60079-0/7/11 Ex e II/Ex eia or eib IIC/Ex ia or ib IIC T3 to T6 depending on the components installed in the enclosure

Certification :

- Approved type CAe

• CENELEC LCIE 02 ATEX 6248X

• IEC LCIE Ex 02.032X

• **C** declaration of conformity No. 50235

• Conforming to standard EN 50281-1-1 (combustible dust)

Protection index :

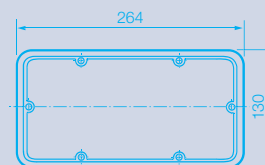
- IP66 according to EN 60529 and IEC 60529; IK10 mechanical resistance (EN 50102)

Operating temperature : - 40°C to + 55°C

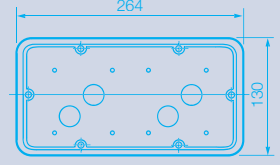
Dimensions (mm) :

Front plates :

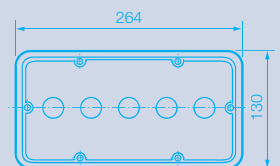
0964 90



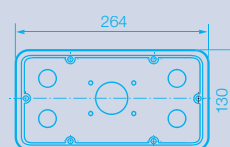
0966 99



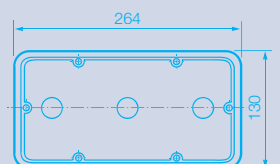
0964 95



0964 87 - 0964 88

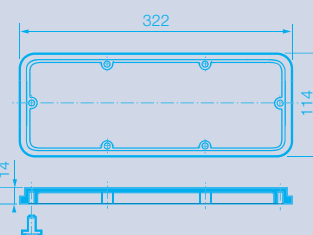


0964 89

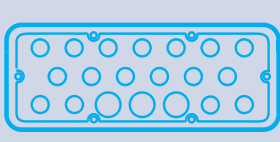


Cable entry plates :

0964 85



0964 86



Components for mounting on ATX "Marina" and stainless steel enclosure doors

increased safety



Control and indicators for mounting on enclosure door

* Actuators are supplied with seal, special nut and key

Push-buttons

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
Push-button supplied with 4 red, green, yellow and white inserts	0.05	0.18	0983 00	1
Spring-return red mushroom head push-button	0.05	0.18	0985 01	1
Spring-return black mushroom head push-button	0.05	0.18	0983 01	1
Red "EMERGENCY STOP" key* switch mushroom head	0.05	0.18	0983 02	1
Red "EMERGENCY STOP" push-pull mushroom head	0.05	0.18	0983 03	1
Key* switch button, key removed in off and on button position	0.07	0.18	0983 20	1
Key* switch button key removed in on position	0.07	0.18	0983 21	1
Key switch button * 0 - 1 key removed in position 0	0.07	0.17	0983 22	1
Blanking plug	0.07	0.18	0983 38	5

Black selector switches

2 positions 0 - I latching	0.03	0.18	0983 24	1
3 positions I - 0 - II (steady)	0.03	0.18	0983 34	1
3 positions I - 0 - II (I and II automatic return)	0.03	0.18	0983 35	1
3 positions I - 0 - II with automatic return from II to 0	0.03	0.18	0983 36	1
3 positions I - 0 - II with automatic return from I to 0	0.03	0.18	0983 37	1

Contact components for door mounting

- Connection via 2 x 2.5 mm² terminals

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
2 NO contacts	0.09	0.18	0981 10	1
2 NC contacts	0.09	0.18	0981 11	1
C/O contact	0.09	0.18	0981 12	1

- Contact components with sealed cable

Important: suitable for mounting on non Ex enclosure

- supplied with 3 m of cable 4 x 1,5 mm²

	Weight	Volume	Cat. No.	Pack
2 NO contacts	0.09	0.18	0981 20	1
2 NC contacts	0.09	0.18	0981 21	1
C/O contact	0.09	0.18	0981 22	1

Zone 1 & 2 - 21 & 22	ATEX	IEC	UL	II 2 G/D
EExe II / EEx de IIC	IP 66			

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Actuators, contact and signalling components

- Approved type : AUX
- According to CENELEC: 0081 II2 G/D EEx e II (actuator)
EEx de IIC (contact)

LCIE: 00 ATEX 0002 U

- According to IEC : Ex e II (actuator) - EEx de IIC (contact)

LCIE: Ex 00.012 U

- According to UL : AEX e II

UL: E 214068

Operating temperature - 50°C to + 60°C (ATEX - IEC); - 35°C to + 60°C (UL)

Protection index IP66 (for actuators, indicator units and switch handles)

Contact components :

Reference insulation voltage :	690 V
Reference operating voltage :	250 V 250 V 110 V 24 V 230 V
Category of use	AC 12 AC 15 DC 13 DC 13
Rated operating current :	16 A 10 A 0.5 A 1 A 10 A

Rated current Ithe 16 A/+ 40°C, 11 A/+ 60°C

Contact materials : Ag Sh 02

Number of operations : 10⁶ for contacts

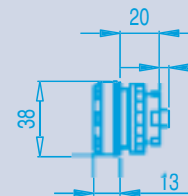
Operational life : 10⁵ hours for indicators

Connection via terminals : 2.5 mm

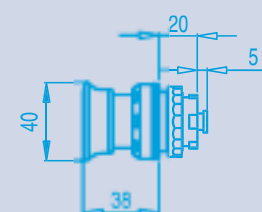
Operating temperature : - 50°C to + 60°C

Dimensions (mm) :

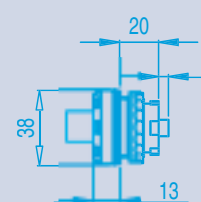
0983 00



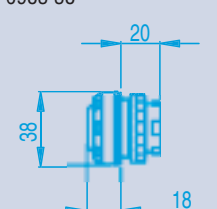
0985 01- 0983 01/02/03



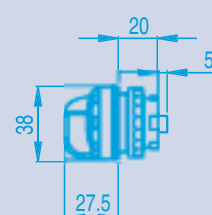
0983 20/21/22



0983 38



0983 23/24/30/31/32/33/34/35/36/37



Data sheet available on request

Part number in bold : fast moving references

increased safety



Signalling components, switch handles and contact blocks

Indicators:

- Mounting on door (supplied with coloured indicator lens)
Multi LED AC 24 V, 48 V, 110 V, 230 V; DC 24 V, 48 V
– Equipped either with a terminal block (clamping capacity twice 2 x 2.5mm²) or with a cable outlet (3 m, 2 x 0.75 mm²) suitable for mounting on non Ex enclosure for cable outlets

	Weight (Kg)	Volume (dm ³)	Cat. No. with terminal block	Cat. No. with cable	Pack
Red indicator	0.10	0.10	0982 11	0982 21	1
Green indicator	0.10	0.10	0982 12	0982 22	1
White indicator	0.10	0.10	0982 10	0982 20	1
Yellow indicator	0.10	0.10	0982 14	0982 24	1
Blue indicator	0.10	0.10	0982 13	0982 23	1

Changeover selector switch

Connection via 2 x 2.5 mm ² terminals					
Single pole I - II (switch handle 0988 51 not supplied)	0.2	0.4	0988 53		1
Single pole with stop I - 0 - II (switch handle 0988 51 not supplied)	0.2	0.4	0988 54		1

16A switch

Double pole I - II (switch handle 0988 51 not supplied)			0988 55		
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Padlockable handle for selector switch, changeover switch and 16 A switch

Supplied with fixing base	0.09	0.4	0988 51		1
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4-pole control and load break switches

(switch handle 0986 66 not supplied)

Control switch 4 NO - 2 positions	0.2	0.10	0988 21		1
Control switch 2 NO + 2 NC - 2 positions	0.2	0.10	0988 22		1
Control switch 1 NC + 3 NO - 2 positions	0.2	0.10	0988 23		1
Control switch 3 NC + 1 NO - 2 positions	0.2	0.10	0988 24		1
Control switch 1 NO - 4 positions	0.2	0.10	0988 25		1
Control switch - 3 positions	0.2	0.10	0988 26		1
Control switch - 3 positions	0.2	0.10	0988 27		1
Control switch - 3 positions	0.2	0.10	0988 28		1
with automatic return from II to I					
Control switch - 3 positions	0.2	0.10	0988 29		1
with automatic return from II to 0					
Control switch - 5 positions	0.2	0.10	0988 30		1
Load break switch 4 NO - 2 positions	0.2	0.10	0988 31		1
Load break switch 3 NO + 1 NC - 2 positions	0.2	0.10	0988 32		1

Rotary switch handle for 4-pole switch

- Supplied with fixing base for mounting on door
- Can be used for any of the 4-pole switch functions

			0986 66		1
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Zone 1 & 2 - 21 & 22	ATEX	IEC	II 2 G/D ou II 2 G
EExe II or EEx de IIC			

TECHNICAL DATA

- Components conforming to Directive 94/9 EC, standards EN 50014/18/19/28

• Contact and signalling components

Zones : 1 and 2 and 21 - 22

- Approved type : AUX

- According to CENELEC : 0081 II2 G/D EEx ed IIC or EEx e II LCIE: 00 ATEX 0002 U

- According to IEC : Ex ed IIC or Ex e II

LCIE: Ex 00.012 U

- According to UL : AEX ed IIC or AEX e II

UL: E 214068

- **Selector switches, changeover switches and 16 A switches**
Zones 1 and 2 authorised in an approved dustproof enclosure

- Approved type: 8008/2

- According to CENELEC: II2 G EEx de IIC T6 PTB 00 ATEX 1111 U

Operating temperature - 55°C to + 40°C

- **4-pole control and load break switches**

Zones 1 and 2 authorised in an approved dustproof enclosure

- Approved type: 07-3331-1

- According to CENELEC: II2 G EEx de IIC T6 PTB 99 ATEX 1043 U

Operating temperature : - 50°C to + 60°C

- According to UL UL: E 184198

Operating temperature : - 35°C to + 60°C

- **Padlockable handle (0988 51)**

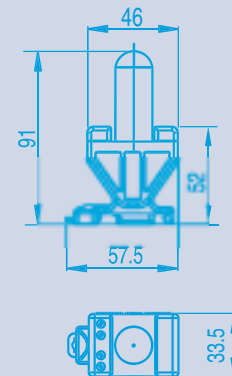
- Approved type: AUXe

- 03 ATEX 0012U (CENELEC)

- Ex 03.011U (IEC)

IP66 protection index (for actuators, indicator units and switch handles)**Dimensions (mm) :**

0982 10/11/12/13/14



TECHNICAL DATA
• indicators :

Reference insulation voltage 300 V

 Reference operating voltage AC 24 V, 48 V, 110 V, 230 V
 DC 24 V, 48 V

 Power ≤ 1 W

Indicators multi LED

• Single pole and double pole changeover selector switch :

Breaking capacity

(according to AC 15/DC 13)

240 V ~6A 415 V ~5A 660 V ~2.5 A

380 V ~6A 500 V ~4A

• Double pole 16 A switch :

Insulation voltage	750 V
Operating voltages	690 V 415 V
Maximum current	16 A 16 A
Category of use	AC-1 AC-15

• 4-pole control and load break switches
• Electrical characteristics : Control breaking capacity

Insulation voltage	(auxiliary on/off switch)		
Ui/660 V	le/AC 15	400 V	10 A
Ue/400 V	e/AC 12	400 V	16 A
	le/DC 13	24 V	1 A
	ltthe		16 A

• Nominal resistance to overvoltage :
 $U_{imp}/6$ KV

• Short-circuit current at 400 V

le/KA

Load breaking capacity

DIN EN 60947-3

(main switch, motor control)

• Short-circuit current :
P/AC 3/AC 23

(max. power fuse NHgL)

230 V 3ph/3KW 1ph/2.2 KW

400 V 3ph/5.5KW 1ph/3 KW

• Rated thermal current :
le/AC 3/AC 23

(+ 40°C) ltthe /16A

400 V 11 A

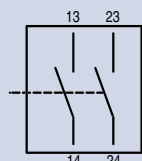
(+ 60°C) ltthe /11A

• Ammeter :

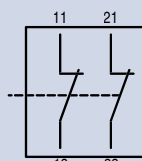
1 max. 500V, Fg 25 at 100 Hz, overload 10 In 5 seconds

Accuracy class 1.5, consumption 0.7 VA at In,

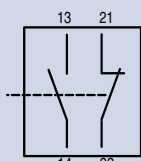
insulation 3 KV - 50 Hz 1 min

• Connection diagrams for contact components :


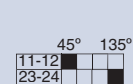
0981 10



0981 11



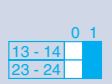
0981 12

• Connection diagrams for changeover selector switch :


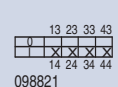
0988 53



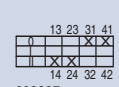
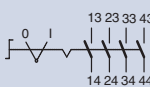
0988 54


• Connection diagrams for double pole 16 A switch :


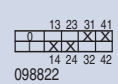
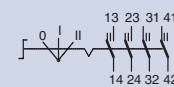
0988 55


Zones 1 & 2 - 21 & 22
ATEX
IEC
II 2 G/D or II 2 G
EExe II or EEx de IIC
Connection diagrams for 4 poles switches :


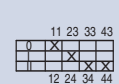
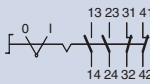
098821



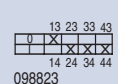
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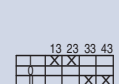
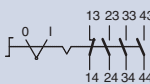
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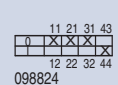
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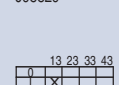
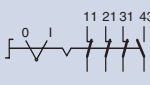
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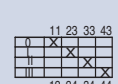
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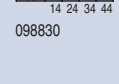
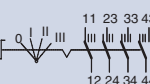
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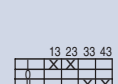
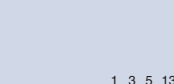
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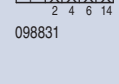
098825



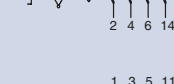
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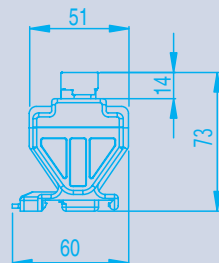
098826



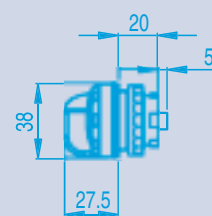
098832


Dimensions (mm) :

0988 21 to 32

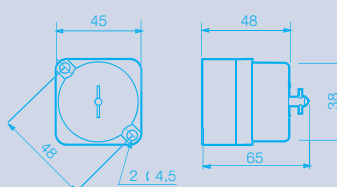


0986 47/48

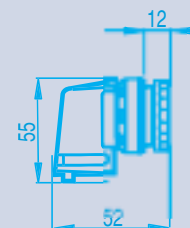


(without fixing base)

0986 52/53/54



0988 51



(without fixing base)



increased safety

Switch
0966 37Ammeter
0988 50Fuse carrier
0962 99Control knob
0988 49**20 A switches**

- Door fixing with rotary control knob Cat. No. 0988 49 (not included)
- Connection via 2 x 4 mm² terminals

	Weight (kg)	Volume (dm ³)	Cat. No.	Pack
2 x 20 A	0.2	0.4	0966 36	1
3 x 20 A	0.2	0.4	0966 37	1
4 x 20 A	0.3	0.4	0966 38	1

Padlockable handle for 20 A switch

- Supplied with fixing base

	Weight (kg)	Volume (dm ³)	Cat. No.	Pack
	0.09	0.4	0988 49	1

Ferromagnetic ammeter

- Class 2.5 - Deflection 90°
- Adjustable red index dial
- Standard square bezel 48 mm
- Connection via 2 x 2.5 mm² terminals

	Weight (kg)	Volume (dm ³)	Cat. No.	Pack
For 1 A C.T. 0-1-3 Flc	0.1	0.4	0988 50	1
For 1 A C.T. 0-1-5 Flc	0.1	0.4	0988 56	1
For 1 A C.T. 0-1-6 Flc	0.1	0.4	0988 57	1
For 5 A C.T. 0-1-3 Flc	0.1	0.4	0988 58	1
For 5 A C.T. 0-1-5 Flc	0.1	0.4	0988 59	1
For 5 A C.T. 0-1-6 Flc	0.1	0.4	0988 60	1
Dials for ammeter	0.09	0.4	*	1

* See selection tables opposite

Window for ammeter

- Supplied with weatherproof seal and frame
- Fixing system for ammeter

	Weight (kg)	Volume (dm ³)	Cat. No.	Pack
Window 48 x 48	0.1	0.4	0988 52	1

Fuse carrier

- For cylindrical industrial cartridges type gG or aM 14 x 51 mm with striker pin
- Adaptor which clips onto EN 50 022 and EN 50 035 rail
- Connection via 2 x 10 mm² terminals

	Weight (kg)	Volume (dm ³)	Cat. No.	Pack
16 A max. for gG cartridges	0.1	0.4	0962 99	1
40 A max. for aM cartridge				

For special options, please consult us:

- Other selector switch diagrams
- Ammeter dials
- Padlocking system 3 x Ø 6 mm

Zones 1 & 2 - 21 & 22	ATEX	IEC	II 2 G/D or II 2 G
EExe II or EEx de IIC			

TECHNICAL DATA

Zones : 1 and 2

- Components conforming to Directive 94/9 EC, standards EN 50014/18/19/2 and standards IEC 60079-0/1/7/18

20 A switch

- Approved type: IT20
- According to CENELEC: 0081 II 2 G EEx de IIC - LCIE: 03 ATEX 0010 U
- According to IEC : Ex de IIC - LCIE: Ex 03.008 U
- Operating temperature - 20°C to + 40°C

Padlockable handle

- Approved type: AUXe
- According to CENELEC: 0081 II 2 G/D EExe II - LCIE: 03 ATEX 0012 U
- According to IEC: Exe II - LCIE: Ex 03.011 U
- Operating temperature - 20°C to + 40°C

Ammeters

Zones : 1 & 2 authorised in an approved dustproof enclosure

- Approved type: C 48 D
- According to CENELEC: 0081 II 2 G EEx em II T6 - LCIE: 02 ATEX 0006 U
- According to IEC : Ex em II - LCIE: Ex 02.019 U
- Operating temperature -25°C to +55°C

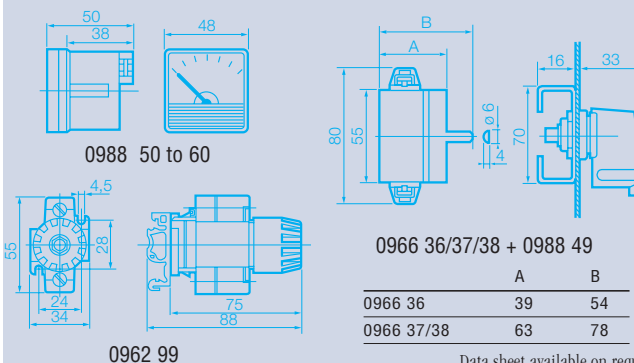
Fuse carrier

- Approved type: FU40
- According to CENELEC: 0081 II 2 G EEx de IIC - LCIE: 02 ATEX 0003 U
- According to IEC: Ex de IIC - LCIE: Ex 02.021 U
- Operating temperature - 20°C to + 40°C

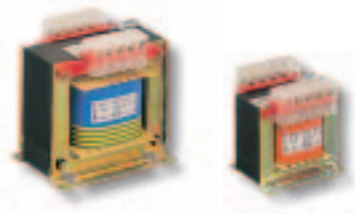
Dial for ammeter :

Cat. No.	3 In 1A Flc graduation			Cat. No.	5 In 1A Flc graduation			Cat. No.	6 In 1A Flc graduation		
	0	5	15		0	5	25		0	5	30
098861	0	5	15	098875	0	5	25	098889	0	5	30
098862	0	10	30	098876	0	10	50	098890	0	10	60
098863	0	15	45	098877	0	15	75	098891	0	15	90
098864	0	20	60	098878	0	20	100	098892	0	20	120
098865	0	30	90	098879	0	30	150	098893	0	30	180
098866	0	40	120	098880	0	40	200	098894	0	40	240
098867	0	50	150	098881	0	50	250	098895	0	50	300
098868	0	60	180	098882	0	60	300	098896	0	60	360
098869	0	75	225	098883	0	75	375	098897	0	75	450
098870	0	100	300	098884	0	100	500	098898	0	100	600
098871	0	125	375	098885	0	125	625	098899	0	125	750
098872	0	150	450	098886	0	150	750	098900	0	150	900
098873	0	200	600	098887	0	200	1000	098901	0	200	1200
098874	0	250	750	098888	0	250	1250	098902	0	250	1500

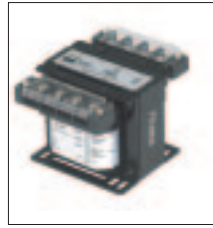
Cat. No.	3 In 5A Flc graduation			Cat. No.	5 In 5A Flc graduation			Cat. No.	6 In 5A Flc graduation		
	0	5	15		0	5	25		0	5	30
098903	0	5	15	098917	0	5	25	098931	0	5	30
098904	0	10	30	098918	0	10	50	098932	0	10	60
098905	0	15	45	098919	0	15	75	098933	0	15	90
098906	0	20	60	098920	0	20	100	098934	0	20	120
098907	0	30	90	098921	0	30	150	098935	0	30	180
098908	0	40	120	098922	0	40	200	098936	0	40	240
098909	0	50	150	098923	0	50	250	098937	0	50	300
098910	0	60	180	098924	0	60	300	098938	0	60	360
098911	0	75	225	098925	0	75	375	098939	0	75	450
098912	0	100	300	098926	0	100	500	098940	0	100	600
098913	0	125	375	098927	0	125	625	098941	0	125	750
098914	0	150	450	098928	0	150	750	098942	0	150	900
098915	0	200	600	098929	0	200	1000	098943	0	200	1200
098916	0	250	750	098930	0	250	1250	098944	0	250	1500

Dimensions and diagrams (mm) :

Part number in bold : fast moving references



EEx "e" transformers



Sola International Control Transformers series

- Single phase 50/60 Hz

EEx "e" transformers

Primary	Secondary	Power	Weight (Kg)	Volume (Dm ³)	Cat. No.	Pack
230/400 V	24/48 V	100 VA	2.7	4	0966 70	1
230/400 V	24/48 V	160 VA	4.9	4	0966 71	1
230/400 V	24/48 V	250 VA	5.4	7	0966 72	1
230/400 V	24/48 V	400 VA	6.9	7	0966 73	1
230/400 V	2x110 V	100 VA	2.7	4	0966 74	1
230/400 V	2x110 V	160 VA	4.9	4	0966 75	1
230/400 V	2x110 V	250 VA	5.4	7	0966 76	1
230/400 V	2x110 V	400 VA	6.9	7	0966 77	1
240/415 V	24/48 V	100 VA	2.7	4	0966 78	1
240/415 V	24/48 V	160 VA	4.9	4	0966 79	1
240/415 V	24/48 V	250 VA	5.4	7	0966 80	1
240/415 V	24/48 V	400 VA	6.9	7	0966 81	1

Sola/Hevi-Duty transformers

- International Control Transformers series : **exclusively for installation in EEx "d" equipment**
- Transformers for industrial applications, frequency 50/60 Hz (thermal insulation up to 105°C)
- Conforming to standards IEC, NEMA, ANSI, NMTBA, JIC and the most demanding industrial specifications
- Encapsulation in Epoxy resin to limit temperature rise
- Tension :
208/240/415 volt primary, 120/24 volt secondary, 50/60 Hz
200/230/400 volt primary, 115/23 volt secondary, 50/60 Hz
220/380 volt primary, 110/23 volt secondary, 50/60 Hz

Catalogue numbers

VA power ratings for duty type	Fixing centres	Weight (Kg)	Cat. No.
continuous	instantaneous		
50	105	20 x 50/20 x 50	E050TC
100	230	20 x 65/20 x 33	E100TC
150	420	20 x 65/20 x 33	E150TC
250	675	31 x 71/31 x 71	E250TC
500	1600	31 x 85/31 x 85	E500TC

For Sola/Hevi Duty DIN rail mounted power supplies
(see page 167)

For other power ratings, please consult us

For more information, contact your local representative or visit the website at www.sola-hevi-duty.com

Part number in bold : fast moving references

Zones 1 & 2	ATEX	IEC	II 2 G	EEx e II
-------------	------	-----	--------	----------

TECHNICAL DATA

Zones :

1 and 2

Classification :

- Ref. 0966 70 to 0966 81
- According to CENELEC :
- Conforming to ATEX Directive 94/9 EC and standards EN 50014-19
- 0081 II2 G for gas EEx e II
- According to IEC : Ex de IIC
- Conforming to standards IEC 60079-0/7 Ex e II

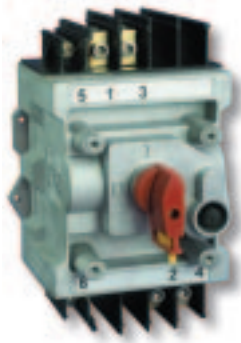
Certification :

- Approved type: TSN - TSCN
- CENELEC LCIE 03 ATEX 0021 U
- IEC LCIE Ex 04.010U
- Declaration of conformity 5C222 for components
- Conforming to standards EN 61558-2-4 and EN 61558-2-6 and corresponding IEC standards
- "Safety of isolation transformers" and "Safety of transformers: general rules"

Operating temperature :

-20°C to + 40°C

- **These components can be installed in zones 21 - 22 in an approved dustproof enclosure, as long as the maximum power dissipation is not exceeded**



RCBO
0966 12



MCB
0966 45



0966 50
with rotary
switch handle



0966 48

MCBs

- Breaking capacity 10 kA - 400 V curve C according to IEC 60947-2
- Supplied with front rotary control switch handle which can be padlocked in stop position (3 x Ø 5 mm)
- Connection 1 x 25 mm² via terminal on front or rear face by turning the bracket round
- Polyamide enclosure for double pole MCBs
- Aluminium alloy enclosure for 3-pole 4-pole and 2 pole RCBOs

230/400 V~ RCBOs

- Mounting in ATX Marina enclosures either on door plate Cat. No. 0966 99, or directly on machined door, or at the back of the enclosure on perforated plate Cat. Nos. 0964 52 to 56
- Mounting in 316 L stainless steel enclosure on machined door

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
30 mA				
2 x 10 A	1.9	3.1	0966 10	1
2 x 16 A	1.9	3.1	0966 11	1
2 x 20 A	1.9	3.1	0966 12	1
300 mA				
2 x 10 A	1.9	3.1	0966 15	1
2 x 16 A	1.9	3.1	0966 16	1
2 x 20 A	1.9	3.1	0966 17	1

400 V~ 2-double pole MCBs

- Mounting in ATX Marina enclosures either on door plate Cat. No. 0964 89 with bracket Cat. No. 0966 50, or directly on machined door, or at the back of the enclosure on perforated plate Cat. Nos. 0964 52 to 56
- Mounting in 316 L stainless steel enclosure on machined door
- Mounting outside the enclosure with terminal shield Cat. No. 0966 48

Nominal rating	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
2 x 6 A	0.9	1.1	0966 43	1
2 x 10 A	0.9	1.1	0966 44	1
2 x 16 A	0.9	1.1	0966 45	1
2 x 20 A	0.9	1.1	0966 46	1

Fixing accessories (2 pole MCBs)

	Cat. No.	Pack
Bracket for door fixing 0966 43/44/45/46	0966 50	1
Set of terminal shields for individual mounting without enclosure of Cat. Nos. 0966 43/44/45/46	0966 48	1
Direct connection via cable gland 21P, 16P or 13P with non-armoured cable. Supplied with 2 plastic reducers 21/13P and 21/16P		

400 V~ 3-pole MCBs

- Mounting in ATX Marina enclosures either on door plate Cat. No. 0964 99, or directly on machined door, or at the back of the enclosure
- Mounting in 316 L stainless steel enclosure on machined door

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
3 x 10 A	1.9	3.1	0966 59	1
3 x 16 A	1.9	3.1	0966 60	1
3 x 20 A	1.9	3.1	0966 61	1

400 V 4-pole MCBs

- Mounting in ATX Marina enclosures either on door plate Cat. No. 0964 99, or directly on machined door, or at the back of the enclosure on perforated plate Cat. Nos. 0964 52 to 56
- Mounting in a 316 L stainless steel enclosure on machined door

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
4 x 10 A	1.9	3.1	0966 62	1
4 x 16 A	1.9	3.1	0966 63	1
4 x 20 A	1.9	3.1	0966 64	1

For special options, please consult us:

- Other ratings
- Auxiliary contacts
- Fault signal changeover switches for RCBOs

Spare parts (see page 290)

MARINA ENCLOSURES EQUIPPED WITH MCBs

Zones 1 & 2	ATEX	IEC	II 2 G	EEx de IIC
IP65 - IP66	ICC = 10 KA			

TECHNICAL DATA

Zones : 1 and 2

Classification :

- According to CENELEC
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18-19
 - 0081 II 2 G for gas EEx de IIC
- According to IEC
 - Conforming to standards IEC 60079-0/1/7 Ex de IIC

Certification :

Model type	Approved	CENELEC	IEC	component declaration of conformity
Double pole	IT 40 U	LCIE 02 ATEX 0035U	LCIE Ex 02.022U	5C208
Double pole + RCD	IT 63	LCIE 99 ATEX 0001U	LCIE Ex 99.003U	5C204
3-pole				
4-pole				

- Conforming to standards EN 60947-2 and IEC 60947-2 (low-voltage wiring accessories: MCBs)

Protection index :

- IP66 according to EN 60529 and meaning IEC 60529
- IP65 for mounting with terminal shield

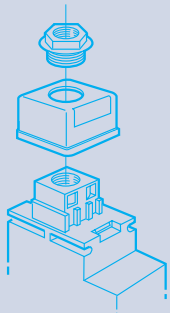
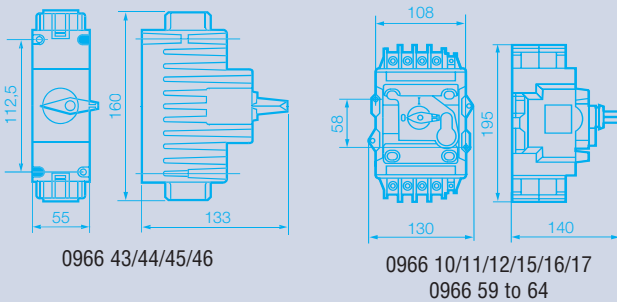
Electrical specifications :

- ISC : 10 kA

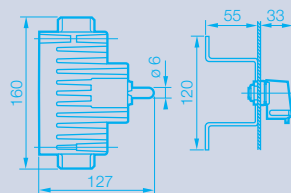
Operating temperature :

- 20°C to + 40°C for approved type IT 40 U
- 30°C to + 55°C for approved type IT63

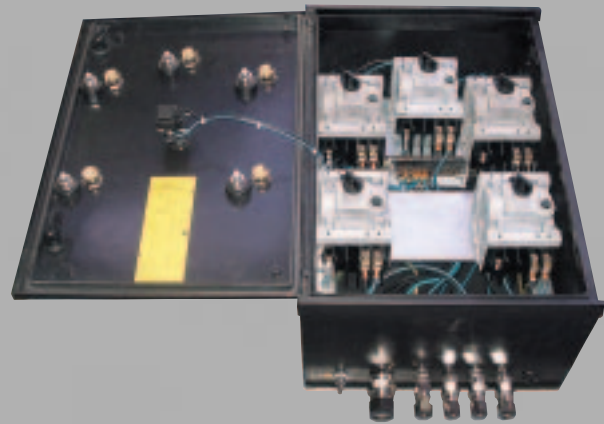
Dimensions (mm) :



Terminal shield mounting
Cat. No. 0966 48 for
Cat. Nos. 0966 43 to 46



With Cat. No. 0966 50
for Cat. Nos. 0966 43 to 46



“Marina” increased safety enclosure equipped with five two-pole RCBOs, mounted at the back of the enclosure



“Marina” distribution panel equipped with six two pole MCBs, mounted on the door

For all special requests, please consult our quotation department :

E-mail : cotation@atx.fr

Fax : + 33 (0) 1 48 63 77 82



Accessories for "Marina" enclosures, 316 L stainless steel enclosures and control stations increased safety

Accessories for control stations only



Accessories common to enclosures and control stations



Accessories

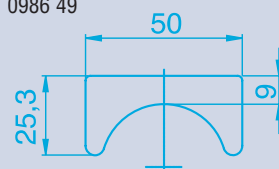
	Cat. No.	Pack
<ul style="list-style-type: none"> • Joining kit for linking 2 boxes, consisting of 2 screw bushings with 2 nuts and 2 seals. 	0986 55	1
<ul style="list-style-type: none"> • Fixing on a tube or frame using a metal strap (not supplied) max. width 22 mm, suitable for all tube diameters ≥ 80 mm 	0986 56	1
<ul style="list-style-type: none"> • Insert for push-button 	Cat. No.	Pack
- Green "ON"	0986 40	5
- Red "OFF"	0986 41	5
- Green "START"	0986 63	5
- Red "STOP"	0986 64	5
- Green "MARCHE"	0986 44	5
- Red "ARRET"	0986 45	5
- Green "I"	0986 42	5
- Red "O"	0986 43	5
- Black (unmarked)	0989 50	5
- Blue (unmarked)	0989 51	5
<ul style="list-style-type: none"> • 304 stainless steel padlocking devices (with seal) (3 padlocks Ø 6 mm maximum not supplied) For stay put mushroom head push-button 	0984 17	1
For push-button with or without stay put operation	0984 18	1
For 3-position switch		
Can be locked in "O" position (Cat. Nos. 0983 30 to 37 P.180)	0984 19	1
For black mushroom head with or without stay put operation	0984 20	1
<ul style="list-style-type: none"> • Mushroom head protection "EMERGENCY STOP" 	0986 57	1
<ul style="list-style-type: none"> • ATX key for push-button and emergency stop 	0986 65	1
<ul style="list-style-type: none"> • Key for actuators blocks 	0984 00	1
<ul style="list-style-type: none"> • Sheet with 57 functions (large model) 	0988 40	1
<ul style="list-style-type: none"> • Sheet with 57 functions (small model) 	0988 41	10
<ul style="list-style-type: none"> • 10 large blank self-adhesive labels (yellow) 	0986 49	10
<ul style="list-style-type: none"> • 10 small blank self-adhesive labels (yellow) 	0986 59	10
One side designed:		
- for marking with one of the above films		
- for mechanical engraving with black text		
<ul style="list-style-type: none"> • M20 cable gland (tightening 6.5 and 14.5 mm) 	0956 43	1
Polyamide body		
Supplied with weatherproof seal and 2 clamps		
<ul style="list-style-type: none"> • M20 plug in polycarbonate supplied with 1 seal 	0957 14	10
<ul style="list-style-type: none"> • Brass earthing plate for 2 x M20 (for polyamide control stations only) 	0986 61	1
<ul style="list-style-type: none"> • Earth terminal 	0986 62	1
<ul style="list-style-type: none"> • M20 locknut 	0957 01	10

TECHNICAL DATA

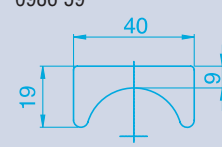
Blank self-adhesive dilophane labels in yellow, large model

Blank self-adhesive dilophane labels in yellow, small model

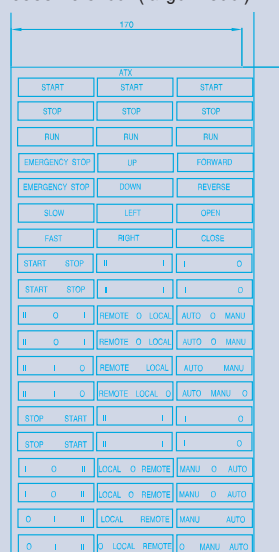
Set of 10
0986 49



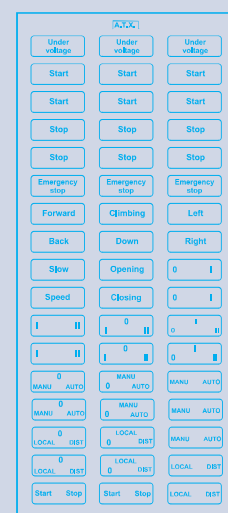
Set of 10
0986 59



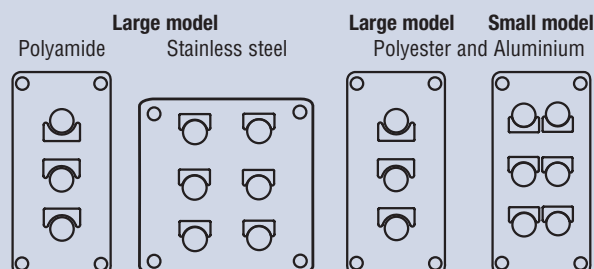
0988 40 sheet (large model)



0988 41 sheet (small model)



Use of labels for each control station (large model and small model)





0986 08 switch 16 A



0962 51 isolator 20 A

16 A switches - 660 V~

- Polyamide box
- 2 clearance entries for M20 at the bottom
- Supplied with 2 x M20 polyamide cable glands (Ø 6.5 to Ø 14.5, 1 blanking plug and 2 nuts)
- 1 earth terminal block 2 x 2.5²
- White self-adhesive dilophane identification label 58 x 18 mm
- A2 stainless steel coarse pitch screw (1 and a half turn)
- Contact components fixed at the bottom of the box

Catalogue numbers

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
1 double pole switch with handle, padlockable in "O" position	0.53	2	0986 08	1
1 double pole switch with unpadlockable handle	0.50	2	0986 30	1
1 single pole changeover switch (I-II) with handle, padlockable in "I" position	0.53	2	0986 14	1

20 A switches - 500 V~

- Polyester box.
- 2 threaded entries for M20 cable gland at the bottom
- Handle can be padlocked in position 0 using 4 padlocks not supplied handle Ø 8 mm maximum, length 15 mm minimum)
- Supplied with Gravoply 63 x 18 mm self-adhesive identification label (yellow with black engraving)
- Connection via 1 x 2 x 4 mm² terminals
- Internal earth: 2 x 4 mm² terminals

Catalogue numbers

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
1- pole changeover switch	1	2.1	0962 50	1
2- pole switch	1	2.1	0962 51	1
3- pole switch	1	2	0962 60	1
4- pole switch	1	2	0962 61	1

Cable glands for armoured cable (see pages 252-262)

Part number in bold : fast moving references

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx ed IIC	T6	T = 55°C	IP 66	IK 10

TECHNICAL DATA

Zones : • 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX directive 94/9 EC and standards EN 50014-18-19
 - EC 0081 II2 G for gas EEx ed IIC T6
 - EC 0081 II2 D - T= 55°C for dust

According to IEC :

- Conforming to standards IEC 60079-0/1/7 Ex ed IIC T6
- DIP A21 TA = 55°C

Certification :

- Approved type: PC e
- CENELEC LCIE 00 ATEX 6047
- IEC LCIE Ex 00.017
- declaration of conformity No. 50221
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 (combustible dust)
- Conforming to standards EN 60947-1/3

Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

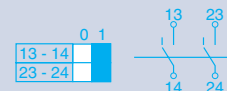
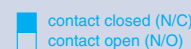
- 20°C to + 40°C

Diagrams :

0986 14

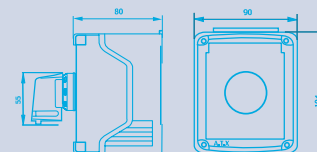


0986 08

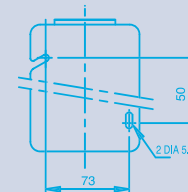


Dimensions (mm) :

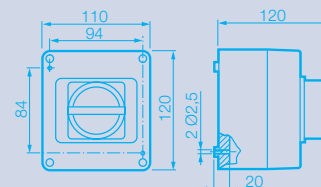
0986 08/14



Fixations



0962 50/51/60/61



Breaking capacities :

Switches 0986 08 / 14

16 A: AC11/DC11 : 240 V~ - 6 A	500 V~ - 4 A
380 V~ - 6 A	660 V~ - 2.5 A
415 V~ - 5 A	220 V= 0.4 A
20 A: AC21 : 500 V~ - 16 A	AC23 : 400 V~ - 16 A

Switches 0986 30

16 A : AC11/DC11 : 690 V	250 V	250 V	110 V	24 V	230 V
AC 12	AC 15	DC 13	DC 13		
16 A	10 A	0.5 A	1 A	10 A	

Data sheet available on request



0962 69



0962 71

63 A isolating switches

- Black polyester box
- Handle can be padlocked in “stop” position using 4 padlocks (shank Ø8 mm maximum; length 15 mm minimum)
- 3-pole or 4-pole switch mechanism with early break auxiliary contact (2.5 mm² max.)
- Connection via 35 mm² terminals
- 2 entries for M32 and 1 entry for M20
- Supplied with:
 - 2 x M32 polyamide cable glands (Ø 10 to 25)
 - 1 x M20 plug

Catalogue numbers

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
3 x 63 A	8	14.5	0962 69	1
4 x 63 A	8	14.5	0962 70	1

160 A isolating switches

- Black polyester box
- Doors mounted on hinges
- Closed with double bar lock
- Interchangeable, padlockable locks
- Protective flanges (1 at the top and 1 at the bottom)
- 4 fixing lugs supplied
- Handle can be padlocked in “stop” position
- 3-pole or 4-pole switch mechanism with early break auxiliary contact (2.5 mm² max.)
- Connection via 120 mm² terminals
- 2 entries for M63 and 1 entry for M25
- Supplied with:
 - key for opening the enclosure
 - 2 x M63 polyamide cable glands (Ø 36 to 44 mm)
 - and 1 x M25 plug

Catalogue numbers

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
3 x 160 A	16	51	0962 71	1
4 x 160 A	16	51	0962 72	1

Spare parts (see page 290)

Cable glands for armoured cable (see pages 252-262)

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G
EEx ed IIC	T5	T = 85°C	IP 66	IK 10

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18-19
 - EC 0081 II2 G for gas EEx ed IIC T5
 - EC 0081 II2 D - T= 85° C for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1/7 Ex ed IIC T5
 - DIP A21 TA = 85°C

Certification :

- Approved type : CAe 2 (0962 69/70) and CAe 8 (0962 71/72)
- CENELEC LCIE 02 ATEX 6248X
- IEC LCIE Ex 02.032X
- **CE** declaration of conformity No. 50235
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 (combustible dust)
- Conforming to standards EN 60947-1/3

Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature : – 30°C to + 55°C

Electrical characteristics :

- Un = 500V/Ui = 690V
- Ithe = 63A
- Uimp = 6KV
- Icc (sous 400V) = 25KA

Category of use :

	AC23	AC3
AC21A/22A 230 to 690 V = 63 A	230 V 15 KW	11 KW
	400 V 22 KW	18,5 KW
	500 V 30 KW	22 KW
	690 V 18,5 KW	15 KW

Auxiliary contact :

- Ith = 10 A
- Categories of use: AC15/230V = 6A
AC15/400V = 4A

160 A isolating switch

- Un = 500V/Ui = 750V
- Ithe = 160A
- Uimp = 8KV
- Icc (under 400V) = 50KA

Operating current :

	AC21A	AC22A	AC23A	DC21A ⁽¹⁾	DC22A ⁽¹⁾	DC23A ⁽¹⁾
260 V	-	-	-	160A	160A	160A
400 V	160A	160A	160A	160A	100A	63A
500 V	160A	160A	160A	-	-	-
690 V	160A	160A	63A	-	-	-

(1) 2 serial contact per pole

Motor power rating :

- 400 V AC (with or without early break) = 90 KW
- 500 V AC (with or without early break) = 70 KW

Auxiliary contact : 5 A/250 V

Dimensions (mm) :

	63A	160A
A	146	425
B	294	566
H	320	600
L	200	400

“Break glass” call points increased safety



“Break glass” call point
0962 25

“Break glass” call points

- Red painted aluminium alloy box
- Steel cover
- Stainless steel chain
- Hammer can be immobilized by a lead tie
- Supplied with M20 plug
- Connection via 2.5 mm² terminals
 - Internal : 2 x 2.5 mm²
 - External : M5 screws
- 2 entries via M20 cable gland at the bottom
(Cat. No. 956 05 supplied).

Catalogue numbers

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
Manual breaking of the circuit after breaking the glass, spring-return “C/O” contact	1.2	5	0962 24	1
Automatic breaking of the circuit as soon as the glass is broken, Spring-return “C/O” contact	1.2	5	0962 25	1

Cable glands for armoured cable (see pages 252-262)

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx ed IIC	T6	T = 55°C	IP66	IK10

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18-19
 - EC 0081 II2 G for gas EEx ed IIC T6
 - EC 0081 II2 D - T= 85°C for dust

According to IEC :

- Conforming to standards IEC 60079-0/1/7 Ex ed IIC T6
- DIPA 21 TA = + 55°C

Certification :

- Approved type: PCe
- CENELEC LCIE 00 ATEX 6047
- IEC LCIE Ex 00.017
- **CE** declaration of conformity No. 50221
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”
- Conforming to standards EN 60947-1/3

Protection index :

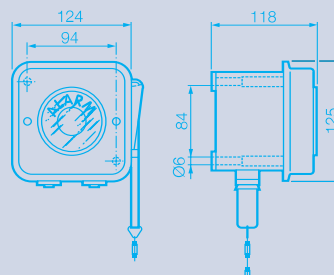
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

- 55°C to + 60°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :

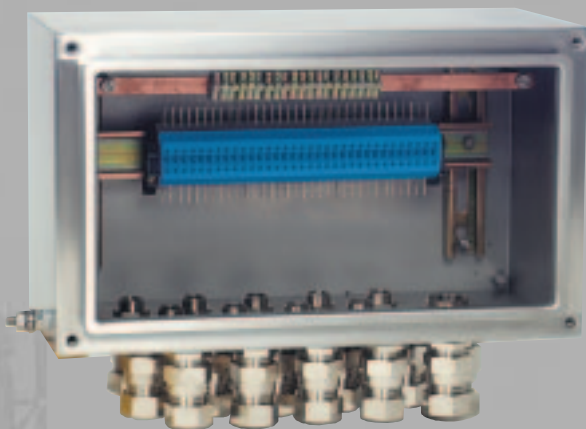


Data sheet available on request

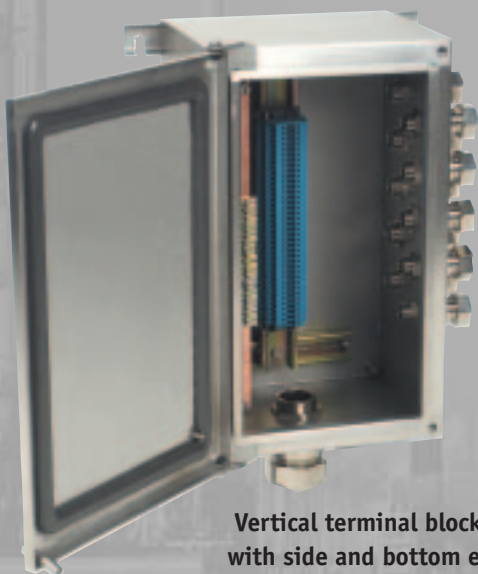
Part number in bold : fast moving references

316 L stainless steel

The new range of 316 L EEx "i" stainless steel instrumentation boxes can be used with EEx "i" "Viking" terminal blocks (Legrand) mounted vertically or horizontally (see page 153). or other terminals under request



Horizontal terminal block and box



Vertical terminal block and box,
with side and bottom entries

EEx "i" intrinsic safety boxes can also be equipped with other brands of terminals. Please send your enquiry to the ATX quotation service.

E-mail: cotation@atx.fr

Fax: 33 (0) 1 48 63 77 82



1-channel relay
0966 31

Single channel relay

- For installation in a safe area (or NIS area) or EEX "d" box
- Transmits to the safe (NIS) area 1 signal received from the hazardous (IS) area
- Provides galvanic isolation of the circuits between the IS area and the NIS area
- Relay can be supplied with 24-48 V DC, 110-140 V~, 230-240 V~
- Mounting on EN 50 022 rail
- Input signal (from hazardous area) selected by jumpers
 - 2-wire NAMUR proximity switch
 - volt-free contact (switched current 8.2 V, 8 mA)
- Output signal (safe area): electromagnetic relay, 1 changeover switch
 - 6 A max. (at 24 V)
 - max: 5 A, 250 V, 10 Hz (switching frequency)
- Direct or reverse repeater selected by jumper
- Connection : 2-conductor cable, dielectric strength 500 V, cross-section 2.5 mm², distance between cables : 8 mm.
Connection : 2.5 mm² max.

Catalogue numbers

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
200 - 240 V - 50/60 Hz	0.3	1	0966 31	1
110 - 140 V - 50/60 Hz	0.3	1	0966 32	1
24 - 48 V CC =	0.2	1	0966 33	1

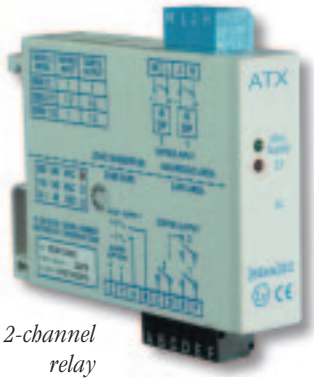
Installation in flameproof enclosures

(please consult us)



M20 intrinsic safety cable gland Cat. No. 0958 01
(see page 268)

Part number in bold : fast moving references



2-channel relay



Intrinsic safety terminals 0966 00

2-channel relay

- For installation in a safe area (or NIS area)
- Transmits to the safe (NIS) area 2 signals received from the hazardous (IS) area
- Provides galvanic isolation of the circuits between the IS area and the NIS area
- Relay can be supplied with 24-48 V DC, 110 -140 V~, 200-240 V~
- Mounting on EN 50 022 rail
- Input signal (from hazardous area) selected by jumpers
 - 2-wire NAMUR proximity switch
 - volt-free contact (switched current 8.2 V, 8 mA)
- Output signal (safe area): electromagnetic relay, 2 changeover switches
 - 6 A max. (at 24 V)
 - max: 5 A, 250 V, 10 Hz (switching frequency)
- Direct or reverse repeater selected by jumper
- Connection: 2-conductor cable, dielectric strength 500 V, cross-section 2.5 mm², distance between cables : 8 mm.
Connection: 2.5 mm² max.

Catalogue numbers

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
200 - 240 V - 50/60 Hz	0.3	1	0966 40	1
110 - 140 V - 50/60 Hz	0.3	1	0966 41	1
24 - 48 V CC =	0.2	1	0966 42	1

Installation in certain flameproof enclosures

(please consult us)

Intrinsic safety terminal

- For installation in a hazardous area (or IS area)
- Can be clipped on symmetrical and asymmetrical DIN rail
- Max. clamping capacity 4 mm²
- 6 mm pitch

Catalogue number

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
Set of 10				
4 mm ² terminals (set of 10)	0.15	0.4	0966 00	1

Safe area / zone 0	ATEX	IEC	EC	II 2 G
--------------------	------	-----	----	--------

EEx ia IIC

TECHNICAL DATA

For intrinsic safety relay

Zones :

- Interface between a safe area and a zone 0

Classification :

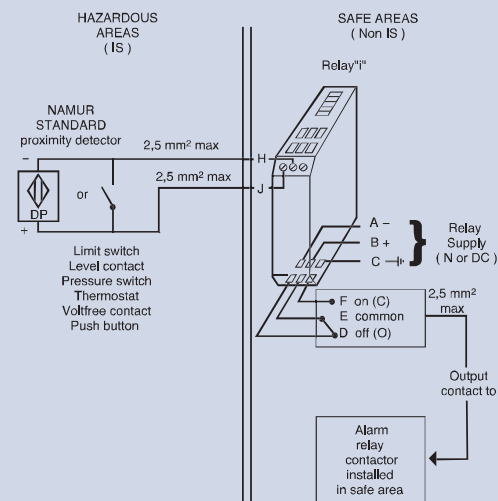
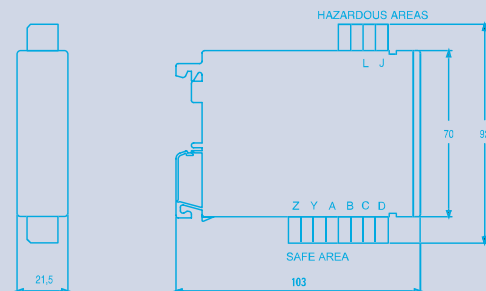
- According to CENELEC
 - Conforming to ATEX Directive 94/9 EC and standards 50014-20
 - EC 0081 II 2 G for gas EEx ia IIC
- According to IEC
 - Conforming to standards IEC 60079-0/11 Ex ia IIC

Certification :

- Approved type RSI
- CENELEC LCIE 03 ATEX 6187X
- **CE** declaration of conformity 50270

Operating temperature : 0°C to + 60°C

Dimensions (mm) :



For example installation diagram of a single channel relay

TECHNICAL DATA

For terminal

Zones :

- Zones 0, 1 and 2

Classification :

- According to CENELEC
 - Conforming to ATEX directive 94/9 EC and standards 50014-20
 - EC 0081 EEx e/i II

Certification :

- CENELEC LCIE 02 ATEX 0039U

Data sheet available on request

ATX : many products to choose from



"Marina" distribution enclosure with MCBs or RCB0s



ATX : many markets



316 L stainless steel control panel

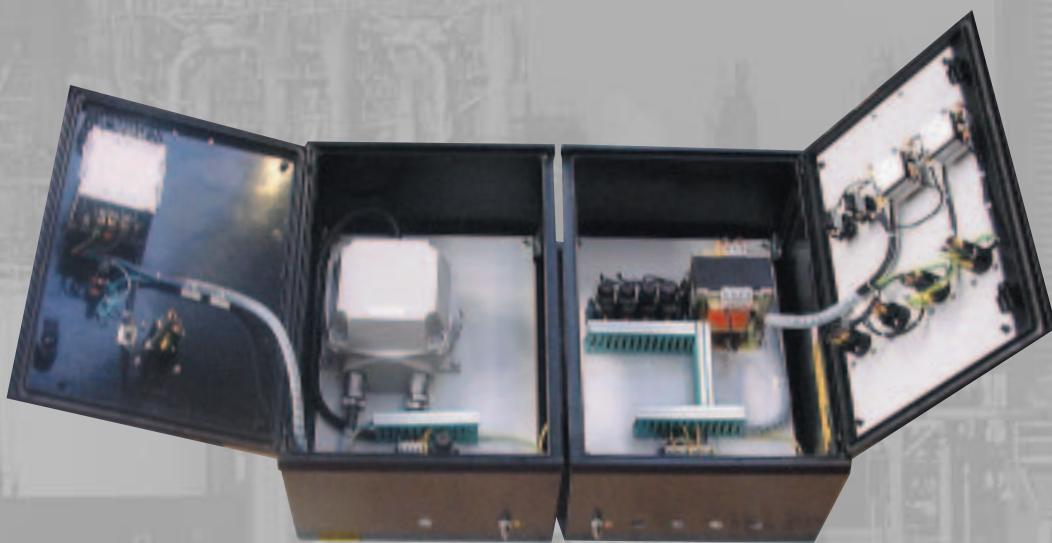


ATX : many customers



"Marina" lighting panel

ATX : many offshore and onshore applications

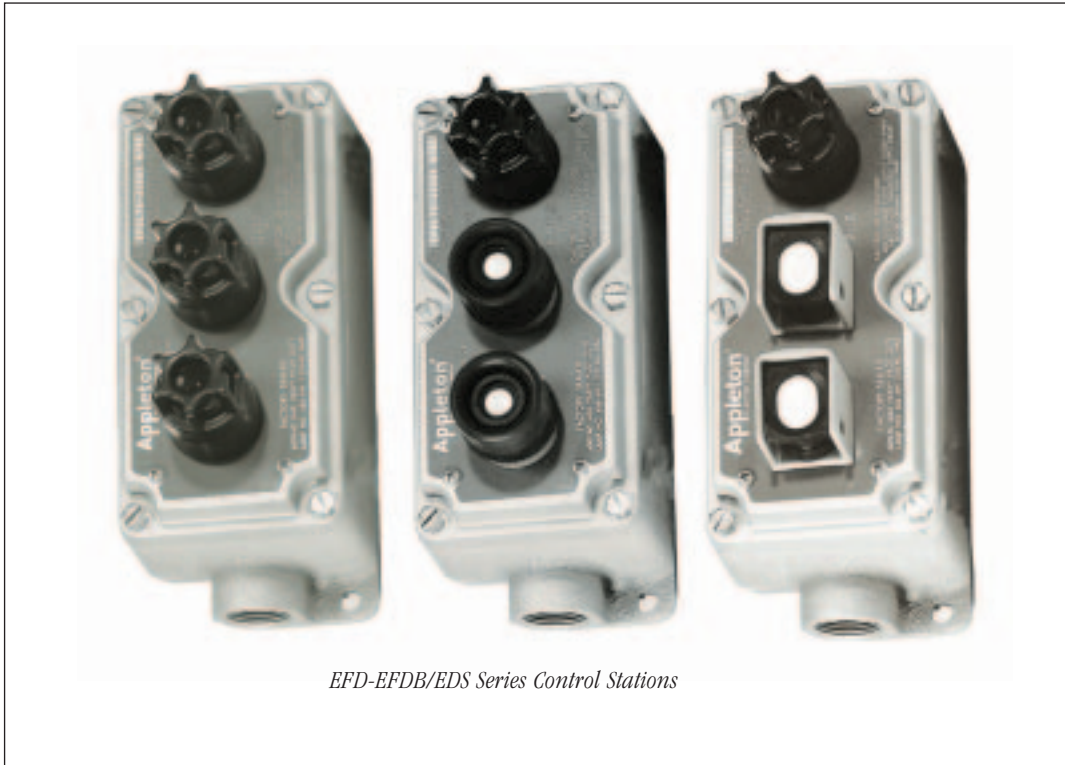


"Marina" instrumentation and control enclosures

Control stations

The Appleton catalogue contains a complete range of control stations certified to North American standards (NEC and CEC), designed for industrial applications as well as installations in potentially explosive atmospheres.

For more information, contact your local representative or visit the website www.appletonelec.com



EFD-EFDB/EDS Series Control Stations

- Conformity to standards

Certification:

Class I, Div. 1 and 2, Groups C & D

Class II, Div. 1 and 2, Groups E, F & G

Class III

NEMA 3, 7CD, 9EFG

Materials:

- Painted aluminium

- Painted zinc-plated bichromate

Electrical characteristics of indicators and control functions:

- Indicators (red, green, blue, yellow and white): 6 watts, 120VAC

- Switch (2 or 4 contacts): 10A, 600VAC

- 250V, 20A (NEMA 6-20R)

- Switches: (single pole and double pole, 3 and 4 channels) 20A, 277VAC (single pole and double pole, 3 channels) 30A, 277VAC

Technical characteristics:

- Available with 1/2", 3/4" and 1" NPT threaded entries

For further information, refer to sections M and N in the Appleton catalogue.

A complete range of standard control stations...



IIC one function



IIC two functions



IIB three functions



IIB three functions

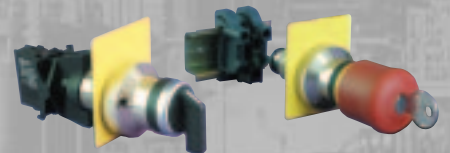
plus components and pre-drilled modular boxes

As EEx "d" enclosures must never be drilled outside the factory, ATX offers a range of pre-drilled boxes.

EEx "d" components are available so that customers can assemble their own flameproof control stations whilst ensuring conformity with the standards.



IIC and IIB modular stations



EEx "d" components actuators and contact blocs

CONTENTS

- **EEx “d” control stations**

- 10 to 32 A switches 208

- 20 to 250 A isolator switches 209

- Enclosures for housing MCBs 210

- IIB/IIC standard control stations with 1, 2 or 3 functions 211

- Break glass call points and switches 212

- Pre-drilled IIB boxes for 2, 3 and 6 functions 213

- Pre-drilled IIC boxes for 1 and 2 functions 214

- II C EEx “d” components

- Components for mounting at back of box 215

- For mounting on the cover 217

- For mounting at back of box or on the cover 219

- **Undrilled IIB control stations** 220

- **Motor starter enclosures** 222

- **Aluminium undrilled IIC control stations and enclosures** 225

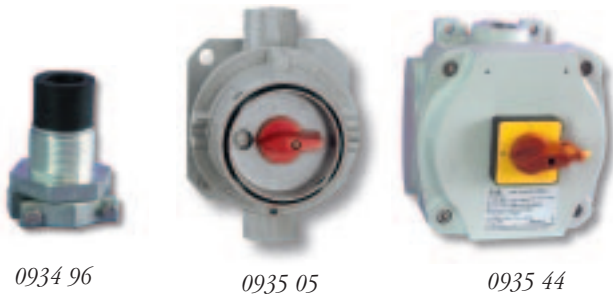
- **Aluminium undrilled IIB control stations and enclosures** 226

- **EGS group** 228

- **Spare parts** 290

- **Certificates** 292

- **ATX guide** 302



10, 16 and 32 A switches

- Grey painted marine grade aluminium alloy box
- Can be padlocked in positions "0" and "I"
- 2 threaded entries positioned vertically for M20 or M25 cable gland (not supplied)
- Internal earth: 2 x 4 mm² terminals
- External earth: M5 for 10 and 16 A - M6 for 32 A

For M20 cable gland

10 A - 250 V~

	Connection	Weight (Kg)	Volume (dm ³)	Cat. No. M20	Pack
1-pole changeover switch	2.5 mm ²	1.1	3.8	0935 06	1
2-pole switch	2.5 mm ²	1.1	3.8	0935 07	1

16 A - 400 V~

2-pole switch	2.5 mm ²	1.1	3.8	0935 29	1
3-pole switch	2.5 mm ²	1.1	3.8	0935 30	1
4-pole switch	2.5 mm ²	1.1	3.8	0935 31	1

For M25 integrated cable gland (0934 96)

10 A - 250 V~

	Connection	Weight (Kg)	Volume (dm ³)	Cat. No. M25	Pack
1-pole changeover switch	2.5 mm ²	1.1	3.8	0935 04	1
2-pole switch	2.5 mm ²	1.1	3.8	0935 05	1

16 A - 400 V~

2-pole switch	2.5 mm ²	1.1	3.8	0935 26	1
3-pole switch	2.5 mm ²	1.1	3.8	0935 27	1
4-pole switch	2.5 mm ²	1.1	3.8	0935 28	1

32 A - 400 V~

2-pole switch	6 mm ²	2.7	8	0935 44	1
3-pole switch	6 mm ²	2.7	8	0935 45	1
4-pole switch	6 mm ²	2.7	8	0935 46	1

Accessories

- M25 integrated cable gland

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
For 10 and 16 A switches sealed Ø : 9 mm minimum, 15 mm maximum grip Ø : 22 mm maximum	2.7	0.8	0934 96	5
Expansion cone for flexible cable	0.1	0.4	0954 60	5

- Customised control stations (see page 224)
- Flameproof cable glands (see page 252)

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx d IIC	T6 - T5	T = 80°C	IP66	IK10

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classifications :

- According to CENELEC
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d IIC T6 for Ta ≤ + 40°C
T5 for + 40°C < Ta ≤ + 55°C
 - EC 0081 II 2 D - T = + 80°C for dust

- According to IEC

- Conforming to standards IEC 60079-0/1 Ex d IIC T6 for Ta ≤ +40°C
and T5 for + 40°C < Ta ≤ + 55°C
- DIPA 21 TA = + 80°C

Certification :

Cat. Nos.	Approved type	CENELEC	IEC	Declaration of conformity
0935 04/05/06/07 26/27/28/29/30/31	BR1d	02 ATEX 6056	Ex 02.005	50230
0935 44/45/46	CF1E	03 ATEX 6044X	Ex 03.003X	50257

- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 (combustible dust)

Protection index :

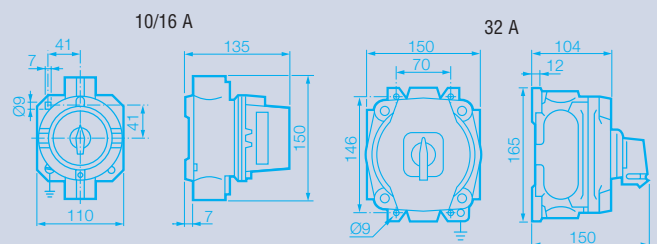
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN50102

Operating temperature :

- 40°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :



Breaking capacities :

10 A : 10 A / 250 V~	32 A : AC 21: 32 A / 220 V~ 30 A / 380 V~
16 A : AC 21: 18 A / 220 V~ 16 A / 380 V~	AC 3 : 7.5 kW / 220 V~ 11 kW / 380 V~ and 500 V~
AC 3 : 4 kW / 220 V~ 5.5 kW / 380 V~	



0935 48

Isolator switches

- Grey painted marine grade aluminium alloy box
- “Vistop” isolator switch mechanism
- Handle can be padlocked in “0” position
- M8 earth stud
- Internal earth
- 2 entries positioned vertically and 1 additional M20 threaded entry on lower part
- Supplied with NO-NC auxiliary switch for on-off signalling
- Supplied with 1 x M20 blanking plug

Catalogue numbers

Isolator	Connection		Bottom entry	Top entry	Weight	Volume	Cat.No.*
	flexible	rigid					
3 x 20 A	0,75 to 6	10	2 M20	1 M20	3,8	11	093508
4 x 20 A	0,75 to 6	10	2 M20	1 M20	3,8	11	093509
3 x 32 A	4 to 16	25	1 M25+ 1 M20	1 M25	3,8	11	093510
4 x 32 A	4 to 16	25	1 M25+ 1 M20	1 M25	3/8	11	093511
3 x 63 A	4 to 35	4 to 50	1 M32+ 1 M20	1 M32	11	19,6	093548
4 x 63 A	4 to 35	4 to 50	1 M32+ 1 M20	1 M32	11	19,6	093512
3 x 100 A	4 to 50	4 to 70	1 M40+ 1 M20	1 M40	13	24,5	093513
4 x 100 A	4 to 50	4 to 70	1 M40+ 1 M20	1 M40	13	24,5	093514
3 x 125 A	4 to 50	4 to 70	1 M50+ 1 M20	1 M50	13	24,5	093515
4 x 125 A	4 to 50	4 to 70	1 M50+ 1 M20	1 M50	13	24,5	093516
3 x 160 A	4 to 50	4 to 70	1 M50+ 1 M20	1 M50	50,5	235,2	093517
4 x 160 A	4 to 50	4 to 70	1 M50+ 1 M20	1 M50	50,5	235,2	093518
3 x 250 A	120 to 185		1 M63+ 1 M20	1 M63	112	646,6	093519
4 x 250 A	with dia. 10 lugs		1 M63+ 1 M20	1 M63	112	646,6	093520

* Pack quantity: 1

For special options, please consult us
Stainless steel boxes

Other cable glands (see pages 252/253/254/262 or 263)

NEW



Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx d IIB	T6	T = 85°C	IP66	IK10

TECHNICAL DATA

Zones : • 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d IIB T6
 - EC 0081 II 2 D - T = + 85°C for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1 Ex d IIB T6
 - DIPA 21 TA = + 85°C

Cat. Nos.	Approved type	CENELEC	IEC	EC declaration of conformity
0935 11/12/48 13/14/15/16 17/18/19/20	CF	02 ATEX 6057X	Ex 02.006X	50229
0935 08/09/10	CF2D	03 ATEX 6061X	Ex 03.006X	50254

Certification :

- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 (combustible dust)

Protection index :

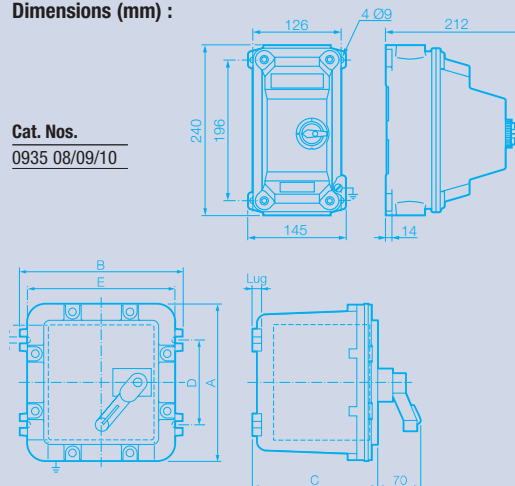
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

- 40°C to + 55°C

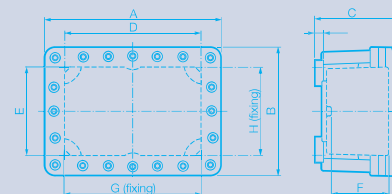
Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :



Cat. Nos.
0935 08/09/10

Cat. Nos.	A	B	C	D	E	F	Lug	Ø
0935 11/12/48	245	270	175	140	259	207	15	11
0935 13/14/15/16	369	270	300	250	245	207	15	11



Cat. Nos.	A	B	C	D	E	F	Lug	Ø
0935 17/18	455	320	377	395	260	255	25	11
0935 19/20	680	440	445	610	370	610	25	14

Insulation voltage	Current ratings						
	20 A	32 A	63 A	100 A	125 A	160 A	250 A
AC 22 A	690 V	690 V	690 V	800 V	800 V	800 V	800 V
400 V	20 A	32 A / 17 Kw	63 A / 35 kW	100 A / 55 kW	125 A / 70 kW	160 A / 88 kW	250 A / 139 kW
500 V	16 A	32 A / 20 kW	63 A / 44 kW	100 A / 69 kW	125 A / 87 kW	160 A / 110 kW	250 A / 180 kW
690 V	20 A		40 A / 38 kW	100 A / 96 kW	125 A / 120 kW	125 A / 120 kW	
AC 23 A		32 A / 17 kW	63 A / 35 kW	100 A / 55 kW	125 A / 70 kW	160 A 88 kW	250 A / 139 kW
500 V		20 A / 14 kW	63 A / 44 kW	100 A / 69 kW	125 A / 87 kW	160 A / 110 kW	250 A / 180 kW
690 V			40 A / 38 kW	100 A / 96 Kw	125 A / 120 kW	125 A / 120 kW	125 A / 117 kW
DC 22 A				100 A	125 A	125 A	250 A
250 V				100 A	125 A	125 A	250 A
DC 23 A				100 A	125 A	125 A	250 A
250 V				100 A	125 A	125 A	250 A

Data sheet available on request

Part number in bold : fast moving references



0931 08



0931 16

For 2 pole, 3 pole and 4 pole MCBs

- Grey painted marine grade aluminium alloy box
- 2 x M20 entries positioned vertically (cable gland not supplied)
- Front control via rotary switch handle (supplied)
- Can be padlocked using switch handle Cat. No. 0940 01

Catalogue number

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
For LEXIC/DX MCBs from 1 to 40 A, 2pole, 3-pole and 4-pole	3.8	11	0931 08	1

For 2 pole RCBOs

- Grey painted aluminium alloy box
- 2 x M20 entries positioned vertically (cable gland not supplied)
- Front control via rotary switch handle (supplied)
- Can be padlocked using switch handle Cat. No. 0940 01
- Black test button on front face

Catalogue number

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
For 1 to 40 A LEXIC/DX MCBs, 30 mA and 300 mA 2 pole RCBOs	3.9	11	0931 16	1

For special options, please consult us:

- Other threads
- Other ratings

Customised control stations and electrical accessory boxes (see page 222)

Other cable glands (see pages 252/253/254/262 or 263)



Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx d IIB	T4 or T3	T = 135°C	IP66	IK10

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d IIB T4 for Ta < + 40°C and T3 for +40°C < Ta ≤ + 55°C
 - EC 0081 II 2 D - T = + 135°C for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1 Ex d IIB T3 for Ta < +40°C and T3 for + 40°C < Ta ≤ + 55°C
 - DIPA 21 TA = + 135°C

Certification :

- Approved type CF2D
- CENELEC LCIE 03 ATEX 6061X
- IEC LCIE Ex 03 006 X
- declaration of conformity No. 50254
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”

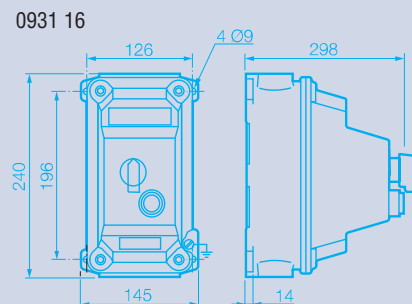
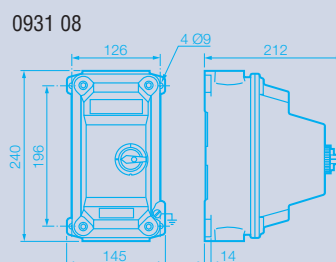
Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Anticorrosion treatment and climate protection : see page G50

Operating temperature : - 40°C to + 55°C

Dimensions (mm) :





0938 90



0938 91

Stations with 1 and 2 functions

- Grey painted marine grade aluminium alloy box
- Threaded flameproof joint
- Connection : 2 x 2.5 mm² max. Internal earth : 4 mm²
- External earth : M5 screw for 10 and 16 A - M6 for 32 A
- 1 x M20 or M25 threaded entry (cable gland not supplied)
excepted cat. numb 0938 88/89 : 2 entries 1 top / 1 bottom

1 function

- 2 contacts supplied (1 NC and 1 NO)

	Weight (Kg)	Volume (dm ³)	Cat. No. M20	Cat. No. M25	Pack
Spring return push-button Black cap	0.9	2.1	0938 81	0938 80	1
Latching mushroom head (Ø 40 mm) "push-pull" push-button can be padlocked in both positions	1.1	3.8	0938 87	0938 85	1
Time-delayed black push-button: adjustable from 1 to 15 min, 500 W incandescent and halogen 230 V; 1000 W resistive; 400 VA fluorescent and 300 VA halogen ELV; neutral must be present (Legrand mechanism 91604) 2 entries	1.1	3.8	0938 88	0938 89	1

2 functions

	Weight	Volume	Cat. No. M25	Pack
1 green spring-return push-button "I" (NO contact) + 1 red spring-return push-button "O" (NC contact)	1.0	2.1	0938 90	1

Stations with 3 functions

- Grey painted marine grade aluminium alloy box
- Supplied with Gravoply 63 x 18 mm identification label (yellow with black engraving) with fixing nails
- Flanged flameproof joint
- 1 red LED indicator 80 to 264 V AC
- 1 green spring-return push-button "I" (NO contact)
+ 1 red spring-return push-button "O" (NC contact)
- Connection: 2 x 2.5 mm² max
- Internal earth: 2 x 4 mm². External earth: M6 screw
- 2 x M20 threaded entries at the bottom

3 functions

	Weight	Volume	Cat. No.	Pack
1 green spring return push-button "I" (NO contact) + 1 red spring return push-button NC (NC contact) + 1 red indicator-mounted	3.2	7	0938 91	1

Accessoires

M25 cable gland	Weight	Volume	Cat. No.	Pack
For control stations Cat. Nos. 0938 80/85/89/90 sealed Ø : 9 mm min - 15 mm max. grip Ø : 22 mm max Cone shaped separator for flexible cable (0954 60)	2.70	0.8	0934 96	5

For special options, please consult us:

- Stations with ammeter

Part number in bold : fast moving references

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx d IIB or IIC	T6 or T5	T = 80° or 85°C	IP66	IK10

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Classification:

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 II 2 G for gas
 - EC 0081 II 2 D for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1

Cat. Nos.	CENELEC		IEC	
	Gas	Dust	Gas	Dust
0938 80/81				DIPA 21
0938 85/87				
88/89 and 90	EEx d IIC T(*)	T = + 80°C	Ex d IIC T (*)	TA = 80°C
0938 91	EEx d IIB T(*)	T = + 85°C	Ex d IIB T (*)	TA = 85°C

(*) T6 for Ta ≤ + 40°C - T5 for + 40°C < Ta ≤ + 55°C

Certification :

Cat. Nos.	Approved type	GENELEC	IEC	EC declaration of conformity
0938 80/81				
0938 85/87				
88/89 and 90	BR1d	02 ATEX 6056	Ex 02.005	50230
0938 91	CF2D	03 ATEX 6061X	Ex 03.006X	50254

- Conforming to standards EN 50281-1-1 and IEC 61281-1-1
"combustible dust"

Protection index :

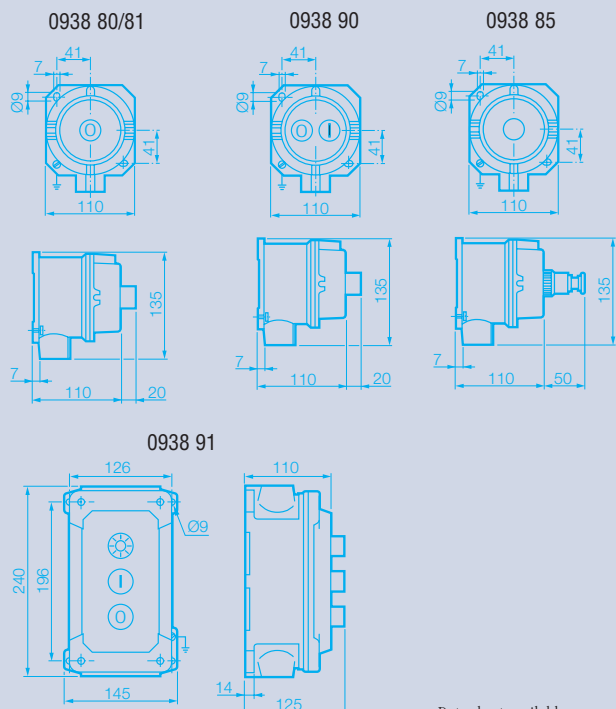
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Anticorrosion treatment and climate protection : see page G50

Operating temperature :

- 40°C to + 55°C

Dimensions (mm) :



Data sheet available on request



Break glass call point

- Painted marine grade aluminium alloy box
- Grey painted body, red painted cover
- 2 x M25 threaded entries (cable gland not supplied)
- Upper entry blocked by a blanking plug
- Stainless steel chain
- Threaded flameproof joint
- Hammer can be immobilized by a lead tie
- Connection via 2.5 mm² terminals max
- 2 internal earths : 4 mm². External earth : M5 screw

Catalogue number

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
Automatically activates as soon as glass is broken NO + NC contacts	1.2	3.8	0938 18	1

Limit switch

- Grey painted marine grade aluminium alloy box
- 1 x M20 or M25 threaded entry (cable gland not supplied)
- Threaded flameproof joint
- NO-NC contact 10 A – 230 V~
Travel 7 mm maximum. Force 22 Newtons
- Connection via 2.5 mm² terminals max
- Internal earth: 4 mm². External earth : M5 screw

Catalogue numbers

	Weight (Kg)	Volume (dm ³)	Cat. No. M20	Cat. No. M25	Pack
Stainless steel roller control perpendicular to fixing surface, 1/4 turn fixing (may be modified by the user) Force : 22 Newtons	1.1	6	0938 07	0938 05	1

Accessories

- **M25 integrated cable gland**

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
For ref. (093805/18) sealed Ø: 9 mm minimum - 15 mm maximum grip Ø: 22 mm maximum Cone-shaped separator for flexible cable (Cat. No. 0954 60)	2.70	0.8	0934 96	5

- For ref. 0938 07, cable gland M20 (see pages 252/262/263)

For special options, please consult us:

- Stations with ammeter

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx d II C	T6	T = 80°C	IP66	IK10

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d IIC T6
 - EC 0081 II 2 D - T = + 80°C for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1 Ex d IIC T6
 - DIPA 21 TA = + 80°C

Certification :

- Approved type BR1d
- CENELEC LCIE 02 ATEX 6056
- IEC LCIE Ex 02 005
- declaration of conformity No. 50230
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1
(combustible dust)

Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

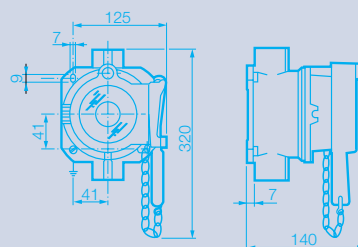
Operating temperature :

- 40°C to + 55°C

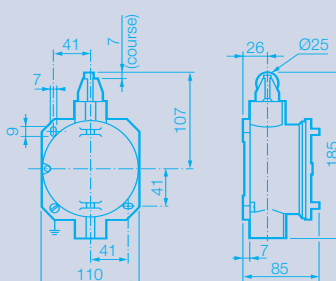
Anticorrosion treatment and climate protection : see page G50

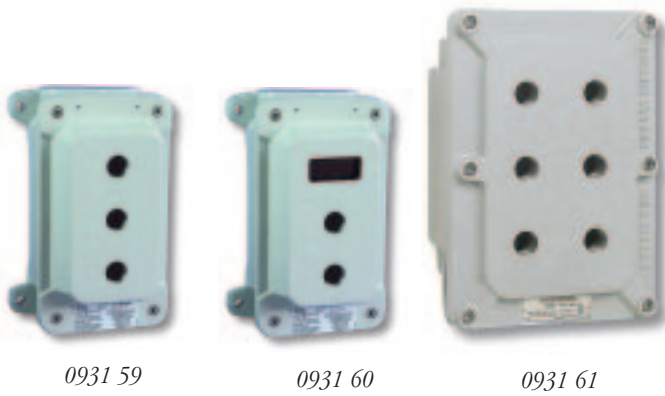
Dimensions (mm) :

0938 18



0938 05/07





Aluminium marine grade alloy or cast-iron boxes

- Grey painted body and cover
- Flanged flameproof joint
- Supplied with Gravoply 65 x 18 mm identification label (yellow with black engraving)
- 2 x M20 threaded entries at the bottom
- Components fixed at back of box
- 2 internal earths: 4 mm²
- External earth: M6 screw
- M8 earth stud for box Cat. No. 931 61

Box for 2 functions

- Painted marine grade aluminium alloy

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
For push-buttons, indicators, selector switch	2.3	7	0931 58	1

Box for 3 functions

- Painted marine grade aluminium alloy

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
For push-buttons, indicators, selector switches	3.1	7	0931 59	1
For push-buttons, indicators, selector switches and ammeter	3.1	7	0931 60	1

Box for 6 functions

- Grey painted cast iron body and cover

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
For push-buttons, indicators, selector switches	13.3	13	0931 61	1

For special options, please consult us:

- Customisation of number of entries + ammeter inspection window, etc.

Other cable glands (see pages 252/253/254/262 or 263)



Zone 1 & 2 - 21 & 22		ATEX	IEC	CE	II 2 G/D
EEx d IIB	T6-T5-T4	T = 85 or 100°C		IP 66	IK 10

TECHNICAL DATA

Zones :

- 1 and 2 and 21 – 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d IIB T6 for Ta ≤ + 40°C and T5 for + 40°C < Ta ≤ + 55°C
 - EC 0081 II 2 D - T = + 85°C for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1 Ex d IIB T6 for Ta ≤ + 40°C and T5 for + 40°C < Ta ≤ + 55°C
 - DIPA 21 TA = + 85°C

Certification :

Cat. Nos.	Approved type	CENELEC	IEC	EC declaration of conformity
0931 58/59/60	CF2D	03 ATEX 6061X	Ex 03.006X	50254
0931 61	CF2B			

- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

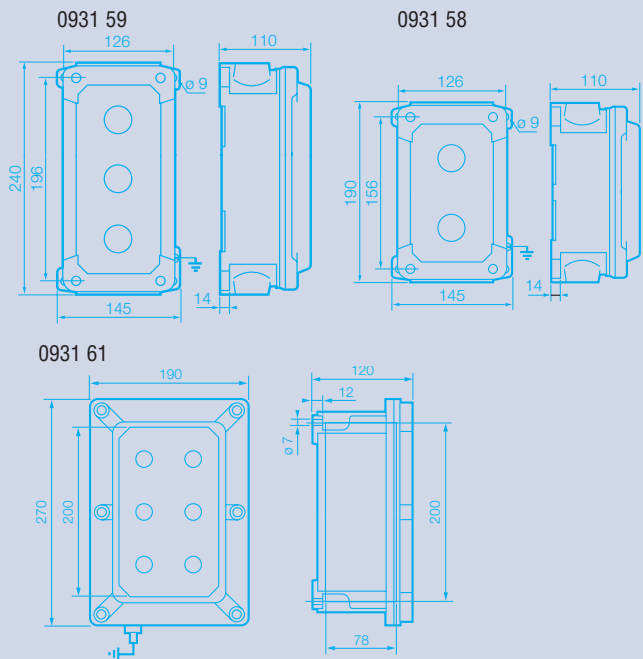
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

- 40°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :



Data sheet available on request

Part number in bold : fast moving references



0931 52



0931 55

Painted marine grade aluminium alloy boxes

- Grey painted marine grade aluminium alloy
- Components fixed at back of box
- Threaded flameproof joint
- Internal earth : 4 mm². External earth : M5 screw
- Cable glands not supplied

1 function

- With 1 x M25 threaded entry at the bottom

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
For push-buttons, indicator, selector switch	0.8	2.1	0931 51	1

- With 2 x M20 threaded entries at the bottom

For indicator (ammeter, voltmeter, etc.) 72 x 72 mm or 96 x 96 mm	3.5	13	0931 55	1
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Equipped with:

- 1 plate for indicator Ø 67 mm cut-out
- 1 toughened glass window
- 2 internal earths: M4 screw. External earth: M6 screw

2 functions

- With 1 x M25 threaded entry at the bottom

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
For spring-return push-buttons	0.8	2.1	0931 52	1

Accessories

- **M25 integrated cable gland**

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
For control stations Cat. Nos. 0931 51/52 sealed Ø: 9 mm minimum - 15 mm maximum grip Ø: 22 mm maximum Expansion cone for flexible cable (0954 60)	0.3	0.8	0934 96	5

- **Components (see pages 215-219)**

Other cable glands (see pages 252/253/254/262 or 263)

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx d IIC	T6 or T5	T = 85°C	IP66	IK10

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d IIC T(*)
 - EC 0081 II 2 D - T = + 85°C for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1 Ex d IIC T(*)
 - DIPA 21 TA = + 85°C

Cat. Nos.	Temperature class	
	Ta ≤ +40°C	+ 40°C < Ta ≤ + 55°C
0931 51	T6	T5
0931 52	T6	T5
0931 55	T6	T6

Certification :

Cat. Nos.	Approved type	CENELEC	IEC	EC declaration of conformity
0931 51/52	BR1d	02 ATEX 6056	Ex 02.005	50230
0931 55	BR2d	03 ATEX 6062	Ex 03.007	50256

- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

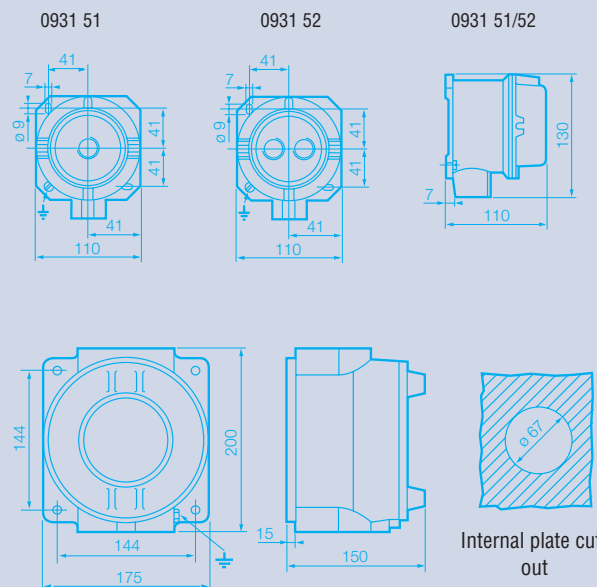
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

- 40°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :



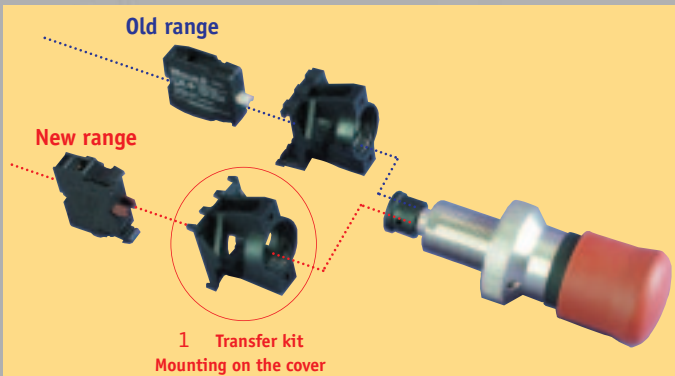
ATX "Transfer kit": easy maintenance

ATX has designed a quick and easy transfer kit which makes it very easy to replace old generation components in an existing installation with the new range of components for "d" enclosures (contacts and indicators).

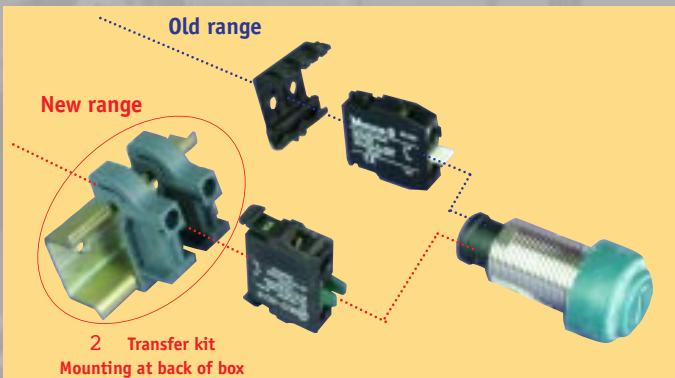
Advantages of the new range

- Multi-LED indicators with a service life of 100,000 hours
- Stackable contacts (mounting on the cover).
- Direct clipping onto DIN rail (mounting at the back of the box)

Mounting on the cover



Mounting at back of box



"Transfer Kit "



Components for mounting at back of box flameproof



For mounting at back of box

- Actuators can be changed without opening the enclosure
- Mounting on rail at the back of flameproof box (drill holes M22 x 1.5 ISO)
- Connection: 2 x 2.5 mm²
- Supplied with actuator, shaft tube, contact, fixing support and blank yellow label for marking (60 x 50 mm)

Spring-return push-buttons

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
"Start I", flexible green actuator. NO contact	0.2	0.4	0939 18	1
"Stop O", flexible red actuator. NC contact	0.2	0.4	0939 19	1

Selector switches

2 maintained positions NO contact	0.2	0.4	0940 07	1
2 maintained positions Key-operated Key can be removed in stop position. NO contact	0.2	0.4	0940 08	1

Mushroom head push-buttons

Red. Padlockable NC contact	0.2	0.4	0939 20	1
Latching push-pull Padlockable. NC contact	0.2	0.4	0939 21	1
Unlocked with key Latching. NC contact	0.2	0.4	0939 22	1

Transfer kit for mounting at back of box

For replacing contact 0940 57 with 0939 23 and 0940 58 with 0939 24 on existing installations (1 kit per button)	0.2	0.4	0939 58	1
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Additional contact components

NC contact	0.1	0.2	0939 23	5
NO contact	0.1	0.2	0939 24	5

Accessories

Push-button actuators

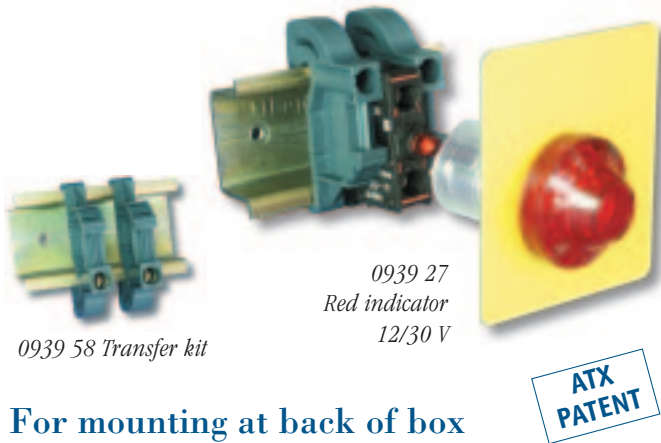
	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
"I" flexible green actuator	0.1	0.4	0937 50	10
"O" flexible red actuator	0.1	0.4	0937 51	10
Flexible black actuator	0.1	0.4	0937 52	10

Blanking plug

For unused openings	0.02	0.2	0940 98	5
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- For other functions, please consult us

Part number in bold : fast moving referen-



0939 58 Transfer kit

0939 27
Red indicator
12/30 V

For mounting at back of box

Indicators

- *Patented system*: lens can be changed without opening the enclosure
- Mounting at the back of flameproof box (drill holes M22 x 1.5 ISO)
- Connection: 2 x 2.5 mm²
- Supplied with indicator housing equipped with extra bright LED, light diffuser, fixing support at back of box, coloured indicator lens and blank yellow label for marking (60 x 50 mm)
- Service life 100,000 hours at over + 25°C

12 to 30 V AC/DC

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
Red	0.06	0.4	0939 27	1
Green	0.06	0.4	0939 28	1
White	0.06	0.4	0939 29	1
Blue	0.06	0.4	0939 30	1
Yellow	0.06	0.4	0939 51	1

48 to 60 V AC/DC

Red	0.06	0.4	0939 31	1
Green	0.06	0.4	0939 32	1
White	0.06	0.4	0939 33	1
Blue	0.06	0.4	0939 34	1
Yellow	0.06	0.4	0939 52	1

85 to 264 V AC

Red	0.06	0.4	0939 35	1
Green	0.06	0.4	0939 36	1
White	0.06	0.4	0939 37	1
Blue	0.06	0.4	0939 38	1
Yellow	0.06	0.4	0939 53	1

Transfer kit for mounting at back of box

- For replacing indicators 0939 90/91 and 0940 90/91 with the above Cat. Nos. on existing installations

Transfer kit	0.2	0.4	0939 58	1
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Indicator lenses (spare parts)

- Can only be mounted on indicators with identical colour LEDs

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
Green	0.06	0.4	0940 85	10
Red	0.06	0.4	0940 86	10
White	0.06	0.4	0940 87	10
Yellow	0.06	0.4	0940 89	10

Zones 1 & 2 - 21 & 22	ATEX	IEC	II 2 G/D
EEx d IIC	IP66	IK10	

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification:

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - 0081 II 2 G EEx d IIC for gas
 - 0081 II 2 D for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1 Ex d IIC

Certification :

- Approved type TCD
- CENELEC LCIE 02 ATEX 0036U
- IEC LCIE Ex 02 026 U
- Declaration of conformity No. 5C213 for components
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

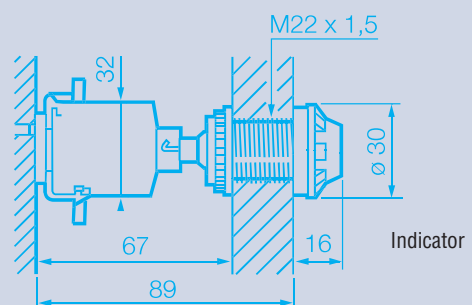
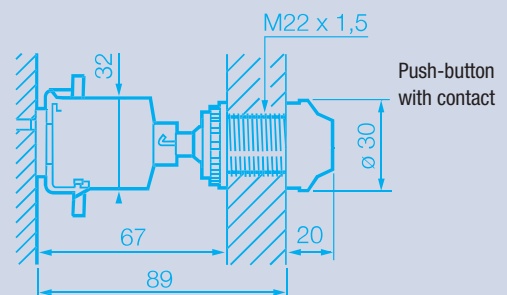
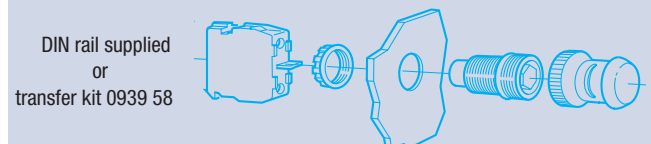
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

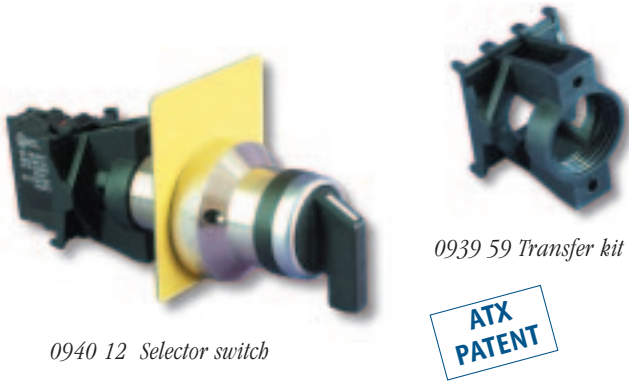
Operating temperature :

- 40°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :





0940 12 Selector switch

0939 59 Transfer kit



For mounting on the cover

Actuators can be changed without opening the enclosure

- Mounting on the cover (drill holes M22 x 1.5 ISO)
- Connection: 2 x 2.5 mm²
- Supplied with actuator, shaft tube, contact, fixing support and blank yellow label for marking (60 x 50 mm)
- **Do not use on box Cat. Nos. 0931 51/52 (mounting at back of box only)**

Spring-return push-buttons

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
“Start I”, flexible green actuator. NO contact	0.2	0.4	0939 13	1
“Stop O”, flexible red actuator. NC contact	0.2	0.4	0939 14	1

Selector switches

2 maintained positions NO contact	0.2	0.4	0940 12	1
2 maintained positions Key-operated Key can be removed in stop position. NO contact MS1 key	0.2	0.4	0940 13	1

Mushroom heads

Red. Padlockable NC contact	0.2	0.4	0939 15	1
Latching push-pull Padlockable. NC contact	0.2	0.4	0939 16	1
Unlocked with key Latching. NC contact MS1 key	0.2	0.4	0939 17	1

Transfer kit for mounting on the cover

- For replacing contact 0940 55 with 0939 25 and 0940 56 with 0939 26 on existing installations (1 kit per button)

Transfer kit	0.2	0.4	0939 59	1
Additional contact components				
NC contact	0.1	0.2	0939 25	5
NO contact	0.1	0.2	0939 26	5

Accessories

Push-button actuators

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
“I” flexible green actuator	0.1	0.4	0937 50	10
“O” flexible red actuator	0.1	0.4	0937 51	10
Flexible black actuator	0.1	0.4	0937 52	10

Blanking plug

For unused openings	0.02	0.2	0940 98	5
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For other functions, please consult us

Part number in bold : fast moving references

Zones 1 & 2 - 21 & 22	ATEX	IEC	II 2 G/D
EEx d IIC	IP66	IK10	

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - 0081 II 2 G EEx d IIC for gas
 - 0081 II 2 D for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1 Ex d IIC

Certification :

- Approved type TCD
- CENELEC LCIE 02 ATEX 0036U
- IEC LCIE Ex 02 026 U
- Declaration of conformity No. 5C213 for components
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”

Protection index :

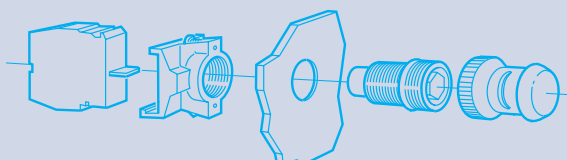
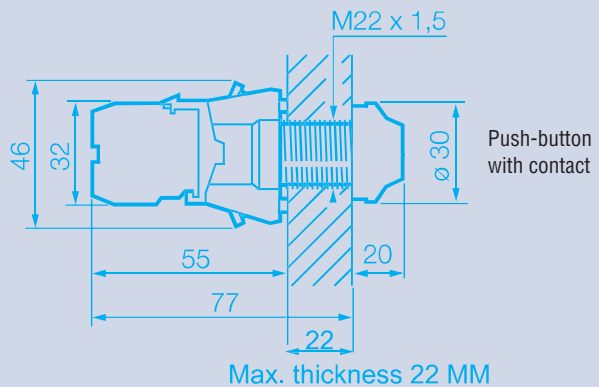
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

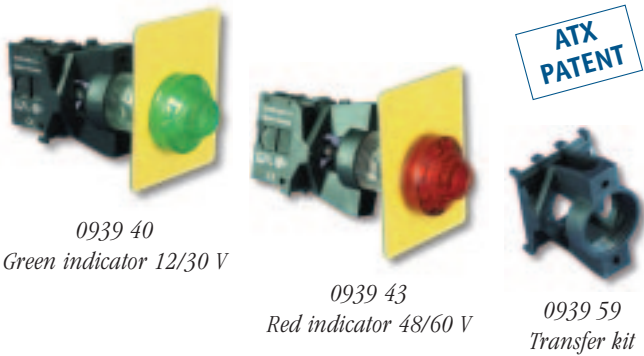
Operating temperature :

- 40°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :





For mounting on the cover

Indicators

- *Patented system*: lens can be changed without opening the enclosure
- Mounting on the cover (drill holes M22 x 1.5 ISO)
- Connection: 2 x 2.5 mm²
- Supplied with indicator housing fitted with extra bright LED, light diffuser, fixing support at back of box, coloured indicator lens and blank yellow label for marking (60 x 50 mm)
- Service life 100,000 hours at 25°C

12 to 30 V AC/DC

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
Red	0.06	0.4	0939 39	1
Green	0.06	0.4	0939 40	1
White	0.06	0.4	0939 41	1
Blue	0.06	0.4	0939 42	1
Yellow	0.06	0.4	0939 54	1

48 to 60 V AC/DC

Red	0.06	0.4	0939 43	1
Green	0.06	0.4	0939 44	1
White	0.06	0.4	0939 45	1
Blue	0.06	0.4	0939 46	1
Yellow	0.06	0.4	0939 56	1

85 to 264 V AC

Red	0.06	0.4	0939 47	1
Green	0.06	0.4	0939 48	1
White	0.06	0.4	0939 49	1
Blue	0.06	0.4	0939 50	1
Yellow	0.06	0.4	0939 57	1

Transfer kit for mounting on the cover

- For replacing indicators 0939 92/93 and 0940 92/99 with the above Cat. Nos. on existing installations

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
Transfer kit	0.2	0.4	0939 59	1

Indicator lenses (spare parts)

- Can only be mounted on indicators with identical colour LEDs

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
Green	0.06	0.4	0940 85	10
Red	0.06	0.4	0940 86	10
White	0.06	0.4	0940 87	10
Yellow	0.06	0.4	0940 89	10

Part number in bold : fast moving references

Zones 1 & 2 - 21 & 22	ATEX	IEC	II 2 G/D
EEx d IIC	IP66	IK10	

TECHNICAL DATA

Zones :

- 1 and 2 and 21 and 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - 0081 II 2 G EEx d IIC for gas
 - 0081 II 2 D for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1 Ex d IIC

Certification :

- Approved type TCD
- CENELEC LCIE 02 ATEX 0036U
- IEC LCIE Ex 02 026 U
- Declaration of conformity No. 5C213 for components
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

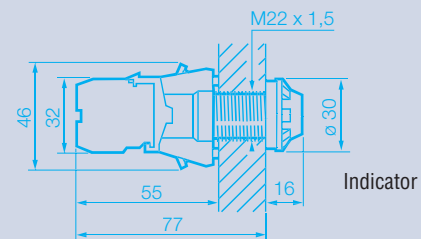
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

- 40 to + 55°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :





0939 03
Selector switch



0940 01
Padlockable handle

Mounting on the cover or back of box

- Mounting in flameproof boxes (drill holes M22 x 1.5 ISO) on rail at back of box or on the cover (except for box Cat. No. 0931 51: at back of box only)
- Connection : 2 x 4 mm²
- Supplied with shaft tube, non-padlockable handle, fixing support at back of box, adaptor for fixing on the cover and blank yellow label for marking (60 x 50 mm)

Switches - 400 V~

	Weight (Kg)	Volume (dm ³)	Cat. No. Cover	Pack
10 A single pole	0.3	0.5	0940 64	1
10 A double pole	0.3	0.5	0940 65	1
16 A 4-pole	0.3	0.5	0940 66	1

16 A changeover switches - 400 V~

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
Single pole 1-2	0.3	0.9	0939 03	1
Single pole with stop 1-0-2	0.3	0.9	0939 04	1

Accessories

For switch or selector switch

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
Non-padlockable handle	0.02	0.04	0940 00	1
Padlockable handle (3 padlocks) with 48 x 48 mm faceplate	0.06	0.3	0940 01	5
Blanking plug	0.02	0.2	0940 98	5

Zones 1 & 2 - 21 & 22	ATEX	IEC	II 2 G/D
EEx d IIC	IP66	IK10	

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - 0081 II 2 G EEx d IIC for gas
 - 0081 II 2 D for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1 Ex d IIC

Certification :

- Approved type TCD
- CENELEC LCIE 02 ATEX 0036U
- IEC LCIE Ex 02 026 U
- Declaration of conformity No. 5C213 for components
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

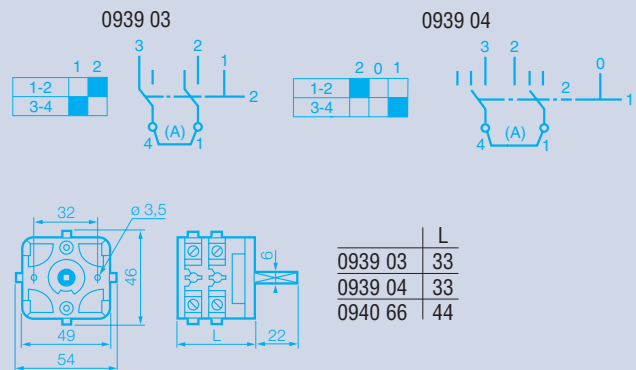
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

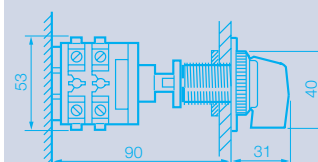
- 40°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

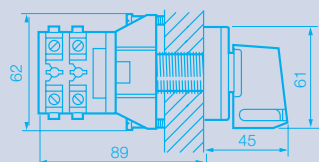
Dimensions (mm) :



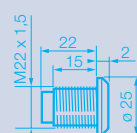
Mounting at back of box



Mounting on the cover



Blanking plug



0940 98

Data sheet available on request



0953 10 Cast iron enclosure



0954 07 Marine grade aluminium enclosure alloy



Complete control station

ATX note

The addition of drill holes is strictly prohibited. If this instruction is contravened, ATX cannot be held responsible.

Possible applications

- Important: machining and drilling undertaken exclusively in our workshops *
- Electrical equipment, which can be controlled externally, if required, via push-buttons, switch handles, etc.
- Power control gear
- Control system, relays
- Distribution
- Electronic device
- Glass inspection windows
- Identification labels engraved with text of your choice
- Can be assembled to make switchboards for wall fixing or fixing on a floor-mounted chassis

Grey painted cast iron enclosures

- M8 earth stud
- Back plate (Cat. Nos. 0953 10/0953 13)
- Stainless steel external fixing accessories

Catalogue numbers

External dimensions ht x width x depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
130 x 130 x 90	4.4	5	0953 10	1
205 x 145 x 127	9.5	6	0953 11	1
270 x 190 x 120	13.8	13	0953 13	1

Grey painted marine grade aluminium enclosures

- Grey marine grade painted
- Stainless steel external fixing accessories
- M6 earth stud for Cat. Nos. 0954 03/0954 05
M8 earth stud for Cat. Nos. 0954 06/07/09/10/12
- Back plate
- Hinged cover (Cat. Nos. 0954 07/09/10/12)

Catalogue numbers

External dimensions ht x width x depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
260 x 270 x 208	10	17.4	0954 03	1
370 x 270 x 208	13	24.5	0954 05	1
340 x 320 x 230	30.5	235.2	0954 06*	1
455 x 320 x 347	50.5	235.2	0954 07*	1
455 x 440 x 347	60	368.7	0954 09*	1
680 x 440 x 413	112	646.6	0954 10*	1
680 x 640 x 413	128	646.6	0954 12*	1

Other cable glands (see pages 252/253/254/262 or 263)

Large aluminium enclosures

- Grey painted marine grade aluminium alloy
- Stainless steel external fixing accessories
- M8 earth stud
- Back plate
- Hinged cover

Catalogue numbers

External dimensions ht x width x depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
880 x 575 x 308	120	160	0953 39	1
1092 x 780 x 332	204	300	0953 40	1
1216 x 606 x 302	140	250	0953 41	1
1216 x 606 x 455	220	350	0953 42	1

For special options, please consult us:

- Metallic and painted cast iron enclosures
- Quotation enquiry form (page 239)

Cable gland (page 252)

• Certain partner companies are fully licensed to drill our boxes under our control

* Catalog number available in stainless steel



TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Classification:

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 II 2 G for gas Ex d IIB T (*)
 - EC 0081 II 2 D - T (*) for dust (excluding JBEW enclosure)
 - According to IEC :
 - Conforming to standards IEC 60079-0/1 Ex d IIB T (*)
 - DIPA 21 TA = (*) (excluding JBEW enclosure)
- T (*) Cat. Nos: 0953 10/11/13 (table on request)
0954 03/05/06/07/09/10/12 (table on request)

Certification :

Cat. Nos.	Approved type	CENELEC	IEC	EC declaration of conformity
0953 10	CF2C	03 ATEX 6061X	Ex 03.006X	50254
0953 11	CF2A			
0953 13	CF2B			
0954 03	CF10B	02 ATEX 6057X	Ex 02.006X	50229
0954 05	CF20B			
0954 06	CF30B			
0954 07	CF40B			
0954 09	CF50B			
0954 10	CF60B			
0954 12	CF70B			
0953 39 to 42 JBEW		03 ATEX 6169X	Ex 03.035X	50272

- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust" (excluding JBEW enclosure)

Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

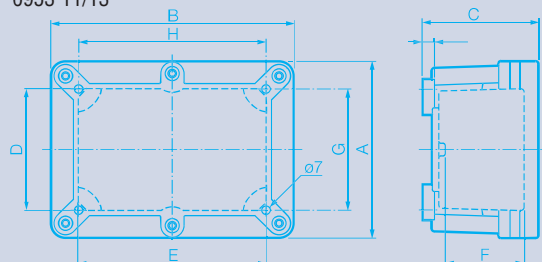
Operating temperature :

- 40°C to + 55°C (for CF10B, 20B, 40B, 50B and JBEW)
- 20°C to + 55°C (for CF30B, 60B, 70B)

Anticorrosion treatment and climate protection : see page G50

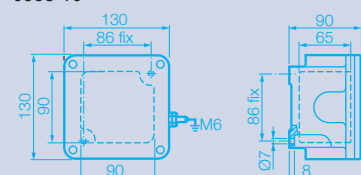
Dimensions (mm) :

0953 11/13



Cat. Nos.	Dimensions						Fixings		Lug thick.	Ø
	External			Internal			G	H		
0953 11	A	B	C	D	E	F	G	H		
0953 13	144	202	96	98	154	65,5	98	156	10	7
0953 13	187	267	115	122	200	81	122	202	12	7

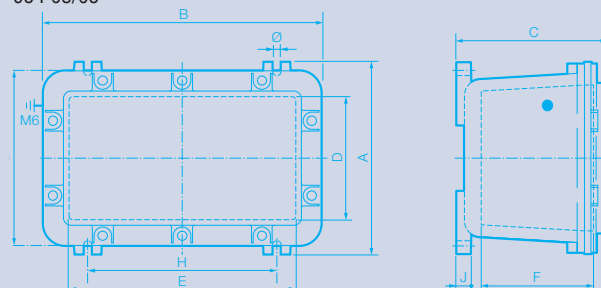
0953 10



Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D	IP66
EEx d IIB	T6 - T5 - T4 - T3 - T2	T = 85° to 135°C			IK10

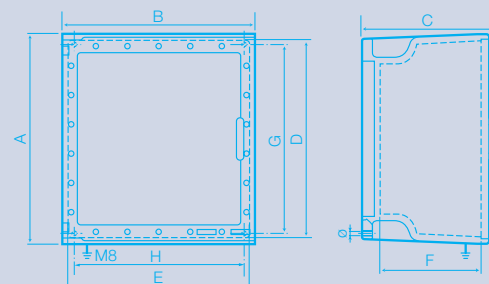
Dimensions (mm) :

954 03/05



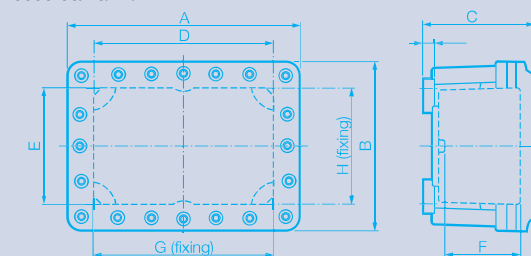
Cat. No.	Dimensions (mm)						Fixings			
	External			Internal			G	H	Lug thick	Ø
0954 03	A	B	C	D	E	F	G	H		
0954 03	270	259	207	175	190	161	245	140	15	11
0954 05	270	369	207	175	300	161	245	250	15	11

0954 06/07/09/10/12



Cat. No.	Dimensions (mm)						Fixings			
	External			Internal			G	H	Lug thick	Ø
0954 06	A	B	C	D	E	F	G	H		
0954 06	340	320	230	291	271	162	298	278	20	9
0954 07	455	320	347	401	266	257	391	256	25	11
0954 09	455	440	347	401	386	251	391	376	25	11
0954 10	680	440	413	616	376	290	616	376	25	14
0954 12	680	640	413	616	576	290	616	576	25	14

0953 39/40/41/42



Cat. No.	Dimensions (mm)							
	External			Internal				
0953 39	A	B	C	D	E	F	G	H
0953 39	879	575	308	768	463	196	584	552
0953 40	1092	781	332	921	615	247	737	711
0953 41	1216	606	302	1073	473	178	974	584
0953 42	1216	606	455	1073	473	331	974	584

Data sheet available on request



0931 14



160 kW star-delta motor starter protected by MCB

Enclosures for housing contactors with overload relay up to 11 kW

- Grey painted marine grade aluminium alloy box
- 2 x M20 through-connection entries + 1 x M20 entry at the bottom
- Supplied with 1 x M20 plug
- On front panel :
 - 1 green “start” push-button equipped with an NO contact
 - 1 red “stop-reset” push-button
- Supplied with Gravoply 63 x 18 mm identification label (yellow with black engraving)
- Earth terminals :
 - internal : bracket for 6 mm² cable
 - external : Ø 6 mm screw

Catalogue number

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
For 25 A, 11 kW max contactor with overload relay, not supplied	3.69	11	0931 14	1

This enclosure can be fitted with the following internal Telemecanique equipment:

Contacteur	Protection relay
LC1 D09	LRD
LC1 D12	
LC1 D18	
LC1 D25	

Factory-produced enclosures for housing motor starter up to 300 kW

Selection criteria

- Motor power rating and operating voltage
- Type of starting (DOL; star-delta; drive; non-reversing or reversing, etc.)
- Type of motor protection (local or remote)
- Control circuit voltage (transformer and protection devices)
- Control on face and/or remote
- Current transformer
- Connection via cable or on busbar
- etc.

Enclosures available

- Grey painted aluminium enclosures; external dimensions : 260 x 270 x 208 mm up to 680 x 640 x 413 mm (see page 220)
- Large aluminium enclosures; external dimensions : 880 x 575 x 308 mm up to 1216 x 606 x 455 mm (see page 220)
- Grey painted mechanically-welded steel enclosures; external dimensions : 796 x 650 x 400 mm up to 1525 x 810 x 412 mm (see page 226)
Stainless steel version (please consult us)

Other cable glands (see pages 252/253/254/262 or 263)

Part number in bold : fast moving references

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx d IIB	T4 or T3	T = 135°C	IP66	IK10

TECHNICAL DATA

(for Cat. No. 0931 14)

Zones : 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 Ex II 2 G for gas EEx d IIB T4 for $T_a < +40^\circ\text{C}$ and T3 for $+40^\circ\text{C} < T_a \leq +55^\circ\text{C}$
 - EC 0081 Ex II 2 D - T = + 135°C for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1 Ex d IIB T4 for $T_a < +40^\circ\text{C}$ and T3 for $+40^\circ\text{C} < T_a \leq +55^\circ\text{C}$
 - DIPA 21 TA = + 135°C

Certification :

- Approved type CF2D
- CENELEC LCIE 03 ATEX 6061X
- IEC LCIE Ex 03 006 X
- **CE** declaration of conformity No. 50254
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”

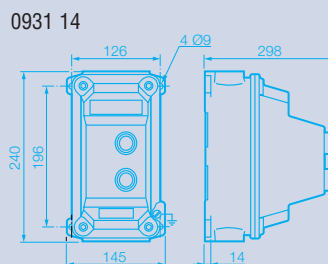
Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Anticorrosion treatment and climate protection : see page G50

Operating temperature : - 40°C to + 55°C

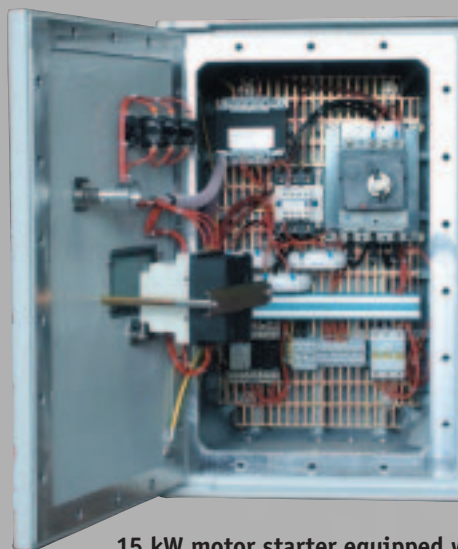
Dimensions (mm) :



Customised motor starter enclosures



75 kW motor starter



15 kW motor starter equipped with multi-function relays and transformer for the control circuit



15kW motor starter units equipped with a thermostatically-controlled thermal resistor

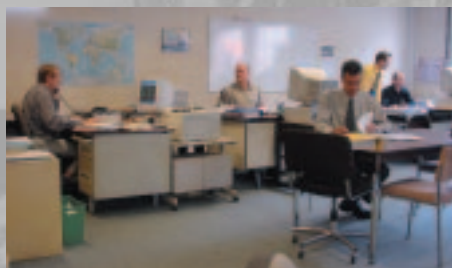


30 kW motor starter with remote control

Motor start units can be made to order according to specifications, plans and drawings, etc. On request from the technical department, via ATX distributors and agents.

E-mail : cotation@atx.fr

Fax : + 33 (0) 1 48 63 77 82



Machining and drilling centre at your service

ATX places its industrial know-how at your service, providing extremely precise drilling and machining in a wide variety of materials (polyamide, stainless steel, aluminium, polyester, etc), from its Amiens

machining centre. ATX can provide aluminium casting, mounting and internal wiring of electrical equipment to create control stations according to your specifications.



Machining centre at the Amiens factory



0953 06

0953 03

0953 04

Customised aluminium boxes

Possible applications

- Electrical equipment, which can be controlled externally, if required, via push-buttons, switch handles, etc.
- Power gear control
- Control system, relays
- Distribution
- Electronic plate
- Glass inspection window
- Engraved identification labels (text of your choice)
- Can be assembled to make switchboards for wall fixing or fixing on a floor-mounted chassis

Grey painted marine grade aluminium boxes

- Spigot flameproof joint
- Internal earth terminal : 10 mm² for Cat. No. 0953 06
- External earth terminal : M6 screw for Cat. No. 0953 06
- M8 earth stud

External dimensions ht x width x depth (mm)	Empty weight (Kg)	Volume (dm ³)	Cat. No.	Pack
165 x 150 x 100	1.5	2.2	0953 06	1
185 x 170 x 170	3	4	0953 02	1
210 x 230 x 125	4	5.5	0953 01	1
295 x 265 x 195	10	9.6	0953 03	1
360 x 335 x 200	12	14.6	0953 04	1

For special options, please consult us:

- Other materials, other colours

Other cable glands (see pages 252/253/254/262 or 263)

ATX NOTE

Additional of drilling is strictly prohibited. If this instruction is not respected, ATX cannot be held for responsible.



Part number in bold : fast moving references

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx d IIC	T6 to T3	T=85 to 135 °C	IP66	IK10

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Classification :

- According to CENELEC
- Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
- EC 0081 II 2 G for gas EEx d IIC - T6 to T3 depending on the enclosure and its equipment
- EC 0081 II 2 D - T = + 85°C to 135°C for dust depending on the enclosure and its equipment
- According to IEC
- Conforming to standards IEC 60079-0/1 Ex d IIC - T6 to T3 depending on the enclosure and its equipment
- DIPA 21 TA = + 85°C to 135 °C for dust depending on the enclosure and its equipment

Certification :

Cat. Nos.	Approved type	CENELEC	IEC	EC declaration of conformity
0953 01	CF1B	03 ATEX 6044X	Ex 03.003X	50257
0953 02	CF1C			
0953 03	CF1A			
0953 04	CF1D			
0953 06	CF1E			

- Conforming to standards EN 50241-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

- 40°C to + 55°C

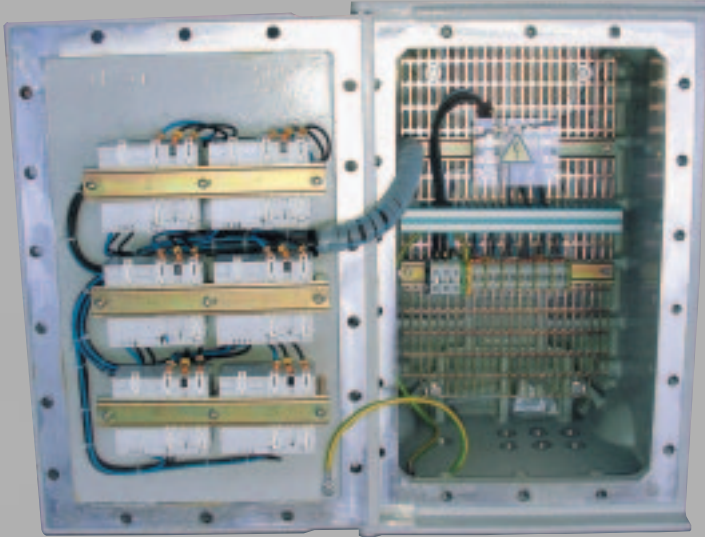
Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :

External dimensions ht x width x depth (mm)	Cat. No.
165 x 150 x 100	0953 06
185 x 170 x 170	0953 02
210 x 230 x 125	0953 01
295 x 265 x 195	0953 03
360 x 335 x 200	0953 04

Data sheet available on request

For customised enclosure options:
ATX quotation department



Customised switchboard

ATX offers you a wide range of combinations derived from standard products or made according to specifications, plans and drawings, etc. Simply send your request to the technical department, via ATX distributors and agents.

E-mail: cotation@atx.fr
Fax 33 (0) 1 48 63 77 82



A.T.X.[®]

Mild Steel undrilled IIB control stations and enclosures flameproof



ATX note

The addition of drill holes is strictly prohibited. If this instruction is contravened, ATX cannot be held responsible.

Flexible mechanically-welded steel enclosure

Possible applications

- Important : machining undertaken exclusively in our workshops
- Electrical equipment, which can be controlled externally, if required, via push-buttons, switch handles, etc.
- Power control gear
- Control system, relays
- Distribution
- Electronic plate
- Glass inspection window
- Identification labels engraved with text of your choice
- Can be assembled to make switchboards for wall fixing or fixing on a floor-mounted chassis, etc.

Grey painted mechanically-welded steel enclosures

- M8 earth stud
- Back plate
- Hinged cover
- Stainless steel external fixing accessories
- Dimensions below in mm

Catalogue numbers

External (mm) length x width x depth	Internal (mm) length x width	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
388 x 440 x 318	300 x 270 x 180	91.5	233.2	0953 44	1
503 x 429 x 418	415 x 260 x 280	151.5	235.2	0953 45	1
503 x 554 x 418	415 x 385 x 280	180	368.7	0953 46	1
723 x 544 x 478	635 x 375 x 340	336	646.6	0953 47	1
723 x 745 x 478	635 x 575 x 340	384	646.6	0953 48	1
796 x 650 x 400	700 x 500 x 295	268	698	0953 23	1
796 x 750 x 400	700 x 600 x 295	298	698	0953 24	1
796 x 850 x 400	700 x 700 x 295	318	698	0953 25	1
896 x 650 x 400	800 x 500 x 295	298	698	0953 26	1
896 x 750 x 400	800 x 600 x 295	318	698	0953 27	1
896 x 850 x 400	800 x 700 x 295	308	698	0953 28	1
996 x 650 x 400	900 x 500 x 295	348	698	0953 29	1
996 x 750 x 400	900 x 600 x 295	348	698	0953 30	1
1125 x 730 x 412	1000 x 550 x 295	395	1144	0953 31	1
1125 x 810 x 412	1000 x 630 x 295	430	1144	0953 32	1
1125 x 880 x 412	1000 x 700 x 295	452	1144	0953 33	1
1325 x 730 x 412	1200 x 550 x 295	445	1144	0953 34	1
1325 x 810 x 412	1200 x 630 x 295	485	1144	0953 35	1
1325 x 880 x 412	1200 x 700 x 295	515	1144	0953 36	1
1525 x 730 x 412	1400 x 550 x 295	495	1144	0953 37	1
1525 x 810 x 412	1400 x 630 x 295	540	1144	0953 38	1

For special options, please consult us:

- 316 stainless steel version
- Other cable glands (see pages 252/253/254/262 or 263)

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d IIB T (*)
 - EC 0081 II 2 D - T = + 135°C for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1 Ex d IIB T (*)
 - DIPA 21 TA = + 135°C

T (*) Detailed tables of temperature classes according to the dissipated power of internal equipment and ambient temperature are available on request.

Certification :

Cat. Nos.	Approved type	CENELEC	IEC	EC declaration of conformity
0953 44	CMS3	02 ATEX 6247X	Ex 02.031X	50236
0953 45	CMS4			
0953 46	CMS5			
0953 47	CMS6			
0953 48	CMS7			
0953 23	CMS47			
0953 24	CMS43			
0953 25	CMS46			
0953 26	CMS44			
0953 27	CMS40			
0953 28	CMS42			
0953 29	CMS45			
0953 30	CMS41			
0953 31	CMS57			
0953 32	CMS52			
0953 33	CMS55			
0953 34	CMS53			
0953 35	CMS50			
0953 36	CMS54			
0953 37	CMS56			
0953 38	CMS51			

- Conforming to standards EN 50281-1-1 and IEC 61241-1-1
"combustible dust"

Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

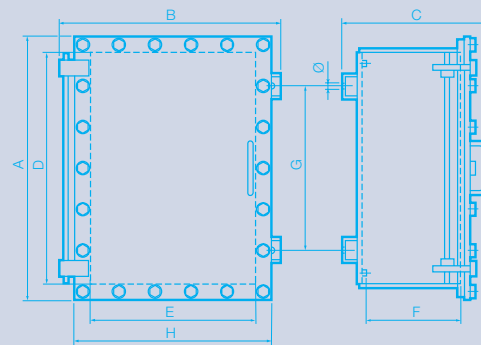
Operating temperature :

- 20°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II2 G/D
EEx d	T6 or T5 or T4	T = 135°C	IP66	IK10

Dimensions (mm) :



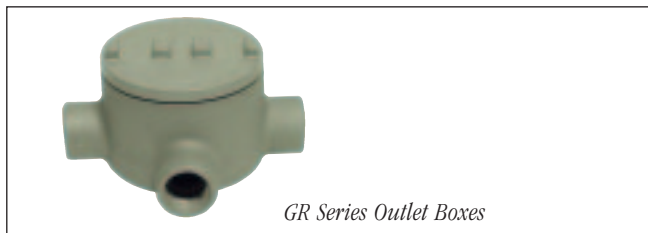
Mechanically-welded steel enclosures

Cat. No.	Dimensions (mm)						Fixings			
	External			Internal			lug th. (mm) Ø			
	A	B	C	D	E	F	G	H		
0953 44	388	440	318	300	270	180	200	370	7	16
0953 45	503	429	418	415	260	280	315	360	7	16
0953 46	503	554	418	415	385	280	315	485	7	16
0953 47	723	544	478	635	375	340	455	475	7	16
0953 48	723	745	478	635	575	340	470	675	7	16
0953 23	796	650	445	700	500	295	500	600	7	18
0953 24	796	750	445	700	600	295	500	700	7	18
0953 25	796	850	445	700	700	295	500	800	7	18
0953 26	896	650	445	800	500	295	600	600	7	18
0953 27	896	750	445	800	600	295	600	700	7	18
0953 28	896	850	445	800	700	295	600	800	7	18
0953 29	996	650	445	900	500	295	600	600	7	18
0953 30	996	750	445	900	600	295	600	700	7	18
0953 31	1125	730	452	1000	550	295	700	660	7	22
0953 32	1125	810	452	1000	630	295	700	740	7	22
0953 33	1125	880	452	1000	700	295	700	810	7	22
0953 34	1325	730	452	1200	550	295	900	660	7	22
0953 35	1325	810	452	1200	630	295	900	740	7	22
0953 36	1325	880	452	1200	700	295	900	810	7	22
0953 37	1525	730	452	1400	550	295	1100	660	7	22
0953 38	1525	810	452	1400	630	295	1100	740	7	22


Junction and connection boxes

The Appleton catalogue contains a complete range of junction and connection boxes certified to North American standards (NEC and CEC), designed for industrial applications as well as installations in potentially explosive atmospheres.

For more information, contact your local representative or visit the website: www.appletonelec.com



GR Series Outlet Boxes

- Conformity with standards 

Certification:

Class I, Div. 1 and 2, Groups B*, C & D

Class II, Div. 1 and 2, Groups E, F & G

Class III

For the Group B classification, sealed fire-resistant entries must be used

Materials:

- Painted zinc-plated bichromate

- Painted aluminium

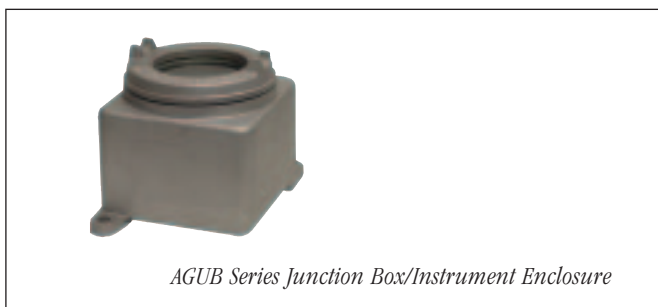
Technical characteristics:

- Thread from 1/2" NPT to 2" NPT

- External cable diameter: From 0.06" to 4"

- Available as standard: 10 different cable entry configurations

For further information, refer to section J in the Appleton catalogue



AGUB Series Junction Box/Instrument Enclosure

- Conformity with standards 

Certification :

Class I, Div. 1 and 2, Groups B*, C* & D

Class II, Div. 1 and 2, Groups E, F & G

Class III

For the Group B and C classification, sealed fire-resistant entries must be used

Materials :

- Painted aluminium

Technical characteristics:

- Thread from 1/2" NPT to 4" NPT

- External cable diameter: From 0.06" to 4"

- Available as standard: 10 different cable entry configurations

For further information, refer to section J in the Appleton catalogue



AJBEW/ACSEW Series - Large Junction Boxes

- Conformity with standards 

Certification :

Class I, Div. 1 and 2, Groups B*, C* & D

Class II, Div.1 and 2, Groups E, F & G

Class III

For the Group B and C classification, sealed fire-resistant entries must be used

Materials :

- Painted aluminium

Technical characteristics:

- Customised drilling

- Available with cover fitted with a window

- Numerous sizes available

- Captive cover screws with coarse pitch

- Push-buttons, indicators and selector switches can be mounted on the cover

For further information, refer to section K in the Appleton catalogue

Four different materials

In response to various mechanical, chemical and environmental constraints, ATX offers specifiers,

users and installers a complete range of increased safety or intrinsic safety junction boxes.



316 L stainless steel box



Polyester box



Polycarbonate box



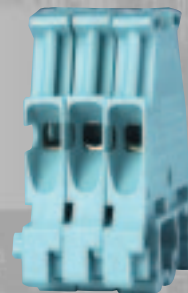
Aluminium box

Boxes equipped with two types of terminal

To satisfy users' requirements for connection, ATX offers 2 types of terminal box.



Spur
Multicore pillar terminals



Junction
Isolated terminals which can
be clipped onto a DIN rail

Increased safety EEX “e”, flameproof EEx “d” or intrinsic safety EEX “i” junction boxes

CONTENTS

• EEx “e” equipment	
Octagonal polycarbonate junction boxes	
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Pre-drilled and undrilled square or rectangular junction boxes	
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Polyester, aluminium pre-drilled instrumentation boxes	235
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0961 05



0961 18

For non-armoured cable 2.5/4 mm² - 660 V

- High impact resistance polycarbonate body and cover
- Equipped with :
 - 4 interconnected internal earth terminals – maximum capacity per terminal (1 x 4 mm²)
 - 4 connection terminals – maximum capacity per terminal (4 x 2.5 mm² or 2 x 4 mm² + 2 x 2.5 mm²) – minimum capacity per terminal (2 x 1.5 mm²)

Catalogue numbers

External dimensions	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
136 x 125 x 50 mm				
4 entries via integrated cable gland 16 P grip Ø on seal: 8 to 16 mm Knock-out cable gland cap can be used as a plug Important: provide an additional cable grip device	0.4	2	0961 05	1
4 entries for cable gland PG16 not supplied (Cat. No. 0956 02) grip Ø on seal: 6.5 to 14.5 mm	0.4	2	0961 03	1

For non-armoured cable 6/10 mm² - 690 V ~

- High impact resistance polycarbonate body and cover
- Telescopic cover retaining pin (can be unclipped)
- Equipped with:
 - 4 interconnected internal earth terminals – maximum capacity per terminal (1 x 10 mm²)
 - 4 connection terminals – maximum capacity per terminal (4 x 6 mm² or 3 x 10 mm² + 4 mm²)

Catalogue numbers

External dimensions	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
121 x 121 x 72 mm				
3 entries - supplied with 3 x M20 cable glands (sealed and grip Ø from 6 to 14.5 mm)	0.6	4.5	0961 12	1
4 entries - supplied with 4 x M20 cable glands (sealed and grip Ø from 6.5 to 14.5 mm)	0.6	4.5	0961 13	1
3 entries - supplied with 3 x M25 cable glands (sealed and grip Ø from 8 to 18.5 mm)	0.5	4.5	0961 18	1
4 entries - supplied with 4 x M25 cable glands (sealed and grip Ø from 8 to 18.5 mm)	0.6	4.5	0961 19	1

- Earth continuity adaptor (see page 261)
- Increased safety cable glands (pages 258-259)

Part number in bold : fast moving references

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx e II	T6	T = 60 or 65°C	IP66	IK10

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-19
 - EC 0081 II 2 G for gas EEx e II T6
 - EC 0081 II 2 D - T = + 60°C (0961 03/05), "for dust" T = + 65°C (096118/19/12/13)
- According to IEC :
 - Conforming to standards IEC 60049-0/7 Ex e II T6
 - DIPA 21 TA = + 60°C (0961 03/05)
 - DIPA 21 TA = + 65°C (0961 18/19/12/13)

Certification :

Cat. Nos.	Approved type	CENELEC	IEC	EC declaration of conformity
0961 03/05	BJe1	02 ATEX 6069	Ex 02.008	50226
0961 18/19/12/13	BJe2	99 ATEX 6003	Ex 99.005	50209

- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

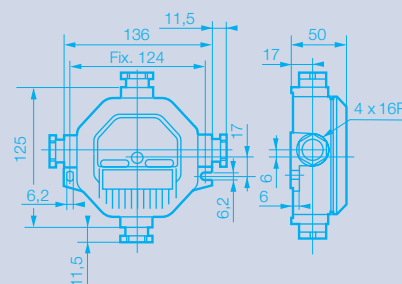
Anticorrosion treatment and climate protection : see page G50

Operating temperature :

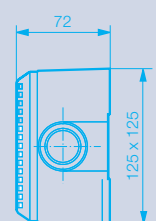
- 50°C to + 55°C (BJe1) and - 40°C to + 55°C (BJe2)

Dimensions (mm) :

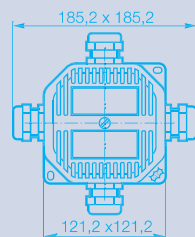
0961 05/03



0961 18/19/12/13



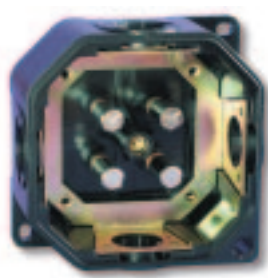
0961 18/19/12/13



Junction boxes for armoured cable increased safety



0961 04



0961 17

For armoured cable 2.5/4 mm² - 660 V~

- High impact resistance polycarbonate body and cover
- Equipped with :
 - 4 interconnected internal earth terminals – maximum capacity per terminal (1 x 4 mm²)
 - 4 connection terminals – maximum capacity per terminal (4 x 2.5 mm² or 2 x 4 mm² + 2 x 2.5 mm²) – minimum capacity per terminal (2 x 1.5 mm²)

Catalogue number

External dimensions	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
136 x 125 x 50 mm				
4 x M20 entries with earth continuity	0.5	2	0961 04	1

- Supplied with 2 x M20 plugs (cable gland not supplied)

For armoured cable 6/10 mm² - 690 V~

- High impact resistance polycarbonate body and cover
- Telescopic cover retaining pin (can be unclipped)
- Equipped with:
 - 4 interconnected internal earth terminals – maximum capacity per terminal (1 x 10 mm²)
 - 4 connection terminals – maximum capacity per terminal (4 x 6 mm² or 3 x 10 mm² + 4 mm²)

Catalogue numbers

External dimensions	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
121 x 121 x 72 mm				
4 x M20 entries: with earth continuity supplied with 2 x M20 plugs	0.6	4.5	0961 14	1
4 x M25 entries : with earth continuity supplied with 2 x M25 plugs cable gland not supplied)	0.6	4.5	0961 17	1

- Entries interconnected by an earth strip

- **Earth continuity adaptor (see page 261)**
- **Cable glands (see pages 252/254 and 257)**



Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx e II	T6	T = 60 or 65°C	IP66	IK10

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-19
 - EC 0081 II 2 G for gas EEx e II T6
 - EC 0081 II 2 D - T = + 60°C (0961 04) T = + 65°C (0961 14/17), "for dust"
- According to IEC :
 - Conforming to standards IEC 60049-0/7 Ex e II T6
 - DIPA 21 TA = + 60°C (0961 04)
 - DIPA 21 TA = + 65°C (0961 14/17)

Certification :

Cat. No.	Type	CENELEC	IEC	EC declaration of conformity
0961 04	BJe1	02 ATEX 6069	Ex 02.008	50226
0961 14/17	BJe2	99 ATEX 6003	Ex 99.005	50209

- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

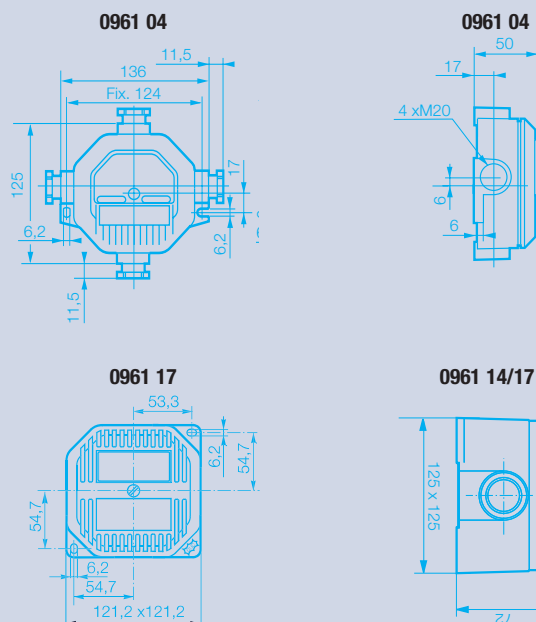
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Anticorrosion treatment and climate protection : see page G50

Operating temperature :

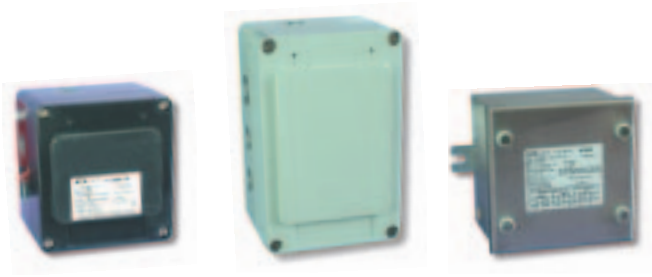
- 40°C + 55°C

Dimensions (mm) :



Data sheet available on request

Part number in bold : fast moving references



0960 14 Polyester 0960 32 Aluminium 0970 00 Stainless steel

Rectangular boxes

- M20 and M25 threaded entries (untapped holes for Cat. No. 0960 19 and for all stainless steel boxes)
- Supplied with Gravoply 63 x 18 mm identification labels (yellow with black engraving)
- Inside, EN 50022 \sqcup fixing rail 7.5 mm deep (2 rails for Cat. No. 0960 19)

Pre-drilled polyester

- Internal earth : 6 mm² terminals

External dimensions length x width x depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
120 x 110 x 95	0.7	2.1	0960 14	1
170 x 110 x 95	0.9	2.7	0960 15	1
230 x 110 x 95	1.1	3.2	0960 16	1
320 x 250 x 150	1.5	16	0960 19	1

Pre-drilled aluminium

- Internal earth : 6 mm² terminal (1 per entry). External earth : M5 screw

External dimensions length x width x depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
120 x 110 x 95	0.9	2.1	0960 31	1
170 x 110 x 95	1.2	2.7	0960 32	1
230 x 110 x 95	1.4	3.2	0960 33	1

Undrilled 316 L stainless steel

- Supplied undrilled, without Din rail or back plate and equipped with an M6 earth stud.
- Optional drilling on side panels
- Equipped with 2 welded studs at the back of the box for fixing a plate or Din rail.
- Important: Do not exceed the permissible number of terminals, dissipated power and maximum number of cable glands per face

Catalogue numbers

Ext. dimensions mm Ht/Width/Depth	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
120 x 120 x 95	1	1.37	0970 00	1
120 x 180 x 95	1.5	2	0970 01	1
180 x 180 x 95	1.8	3	0970 02	1

Accessories

	Cat. No.	Pack
Set of 10 Din rails of 100 mm for box 0970 00	0972 46	1
Set of 10 Din rails of 160 mm for boxes 0970 01/02	0972 47	1

- Other boxes, stainless steel enclosures, accessories for fixing at the back of the box for 316 L stainless steel enclosure (see page 164)
- Cable glands (see pages 252/254/257/258/ and 259)

Part number in bold : fast moving references

Zone 1 & 2 - 21 & 22			ATEX	IEC	EC	II 2 G/D
EEx e II	T6/T5	T=55° ou 85° ou 110°C	IP 66		IK 10	

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

- According to CENELEC :

- Conforming to ATEX Directive 94/9 EC and standards EN 50014-19
- EC 0081 Ex II 2 G for gas EEx e II T6 or T5 depending on the device
- EC 0081 Ex II 2 D T = + 55°C (0961 14/15/16/31/32/33)
T = + 85°C (0960 19)
T = + 110°C (0970 00/01/02) } For dust

- According to IEC :

- Conforming to standards IEC 60049-0/7 Ex e II T6
- DIPA 21 TA = + 55°C (0960 14/15/16/31/32/33)
- DIPA 21 TA = + 85°C (0960 19)
- DIPA 21 TA = + 110°C (0970 00/01/02)

Certification :

Cat. Nos.	Type	CENELEC	IEC	EC declaration of conformity
0960 14/15 16/31/32/33	PCe	00 ATEX 6047	Ex 00.017	50221
0960 19	CAe	02 ATEX 6248X	Ex 02.032X	50235
0970 00/01/02	JBe	02 ATEX 6118X	Ex 02.010X	50232

- Conforming to standards EN 50281-1-1 and IEC 61241-1-1
"combustible dust"

Protection index :

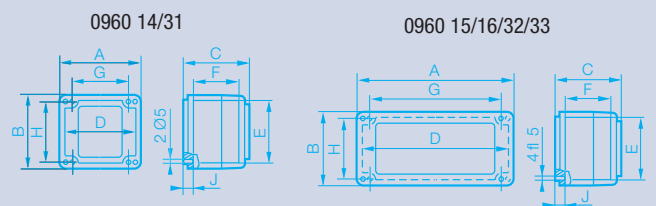
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Anticorrosion treatment and climate protection : see page G50

Operating temperature :

- 55°C to + 60°C (0960 14/15/16/31/32/33) ; - 40°C to + 55°C (0960 19) ;
- 40°C to + 70°C (0970 00/01/02)

Dimensions (mm) :



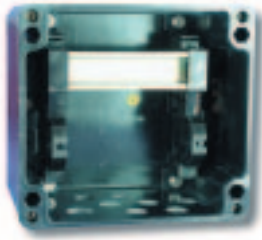
Dimensions : 0970 00 - 0971 01 - 0972 02

Cat. Nos.	External dimensions			Internal dimensions			Fixing center			Rail L	No. of rails
	A	B	C	D	E	F	G	H	J		
0960 14/31	120	110	95	110	100	70	84	94	15	62	1
0960 15/32	170	110	95	160	100	70	134	94	15	112	1
0960 16/33	230	110	95	220	100	70	194	94	15	172	1

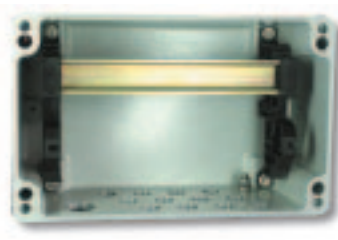
Drilling detail (number and position on polyester and aluminium enclosures)

Drill holes	0960 14/31				0960 15/32				0960 16/33				0960 19			
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
M 20	1	1	2	1	-	1	2	1	-	2	3	2	-	3	8	3
M 25	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-
No. of 6 mm terminals*	7				15				23				62			
No. of 8 mm terminals*	5				11				17				46			

* Not supplied



0960 05



0960 27

Polyester or aluminium boxes

- Equipped with an EN 50022 DIN rail depth 15 mm and a set of 2 supports Cat. No. 0961 15
- Supplied with Gravoply 63 x 18 mm identification label and fixing rivets

Black polyester

- Threaded entries for M20 to M32 cable glands (not supplied) clearance holes for M40 cable gland (provide nuts)
- Internal earth : 2 x 10 mm² terminals

Dimensions (mm) length x width x depth	Entries for cable gland	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
215 x 200 x 150	1 x M25 7 x M20	3.2	13	0960 05	1
320 x 200 x 150	1 x M32 12 x M20	4.1	15	0960 06	1
425 x 200 x 150	1 x M32 19 x M20	5.3	26	0960 07	1
575 x 200 x 150	1 x M40 27 x M20	6.7	49	0960 08	1

Grey aluminium

- Threaded entries for M20 to M40 cable glands (not supplied)
- M8 earth stud

Dimensions (mm) length x width x depth	Entries for cable gland	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
215 x 205 x 130	1 x M25 7 x M20	4	13	0960 26	1
320 x 205 x 130	1 x M32 12 x M20	4.6	15	0960 27	1
425 x 205 x 130	1 x M32 19 x M20	5.6	19	0960 28	1
480 x 380 x 190	1 x M40 27 x M20	11	53	0960 29	1

316 L stainless steel boxes (see page 145)

Terminals blocks

“Instrumentation” type, for above boxes

Type of cable	For boxes Cat. No.	Terminals(1) width 6	Shield ding	Weight kg	Volume (dm ³)	Cat. No.	Pack
7 pairs	0960 05-0960 26	14	7	0.2	0.50	0960 39	1
12 pairs	0960 06-0960 27	24	12	0.4	1.25	0960 41	1
19 pairs	0960 07-0960 28	38	19	0.6	1.60	0960 43	1
27 pairs	0960 08-0960 29	54	27	0.7	1.60	0960 44	1

(1) Legrand “Viking” terminals, “e” safety Cat. No. 390 61

	Weight	Volume	Cat. No.	Pack
Set of 2 multifunction insulated support for DIN rails and copper bars 12 x 2, 12 x 4 mm	0.2	0.9	0961 15	1

Tapped copper bars for earth connection

Cross-section (mm)	Maximum rating (A)	Thread Ø mm Pitch	Cat. No. Width 991.5 mm	Pack
12 x 2	120	M5 18	0961 21	10
12 x 4	180	M5 18	0961 22	10

Connectors

	Cat. No.	Pack
2 x 10 mm ² connectors for copper bars (supplied with Ø 5 mm screw)	0961 23	100

Zone 1 & 2 - 21 & 22		ATEX	IEC	EC	II 2 G/D
EEx e II	T6	T = 85°C	IP 66		IK 10

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-19
 - EC 0081 II 2 G for gas EEx e II T6
 - EC 0081 II 2 D T = + 85°C for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/7 Ex e II T6
 - DIPA21 TA = + 85°C

Certification :

- Approved type CAe
- CENELEC LCIE 02 ATEX 6248X • IEC LCIE Ex 02.032X
- declaration of conformity 50235
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”

Protection index :

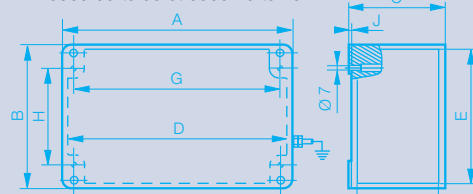
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN50102

Ambient temperature :

- 40°C to + 55°C

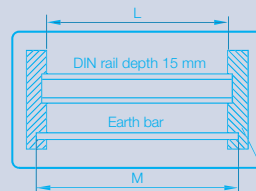
Dimensions (mm) :

0960 05 to 08 et 0960 26 to 29



Cat. No.	A	B	C	D	E	F	G	H	J
0960 05	215	200	150	200	185	125	189	146	6
0960 06	320	200	150	305	185	125	294	146	6
0960 07	425	200	150	410	185	125	399	146	6
0960 08	575	200	150	560	185	125	548	146	6
0960 26	215	205	130	200	190	105	186	146	10
0960 27	320	205	130	305	190	105	290	146	10
0960 28	425	205	130	410	190	105	398	146	10
0960 29	480	380	190	394	293	140	404	305	13

Useful capacity of DIN rail and length of earth bar



Cat. Nos.	L	M
0960 05 - 0960 26	105	129
0960 06 - 0960 27	206	234
0960 07 - 0960 28	310	339
0960 08 - 0960 29	315	345

Possibility of: 2 rails + 1 earth bar 12 x 4 mm with terminals pitch 6 (for wire 4 mm²) or pitch 8 without screening strip – 1 rail + 2 earth bars 12 x 4 mm with terminals, with or without screening strip

Length of copper bars Cat. Nos. 373 88/89 depending on the box

Box Cat. Nos.	Length of copper bar (mm)
0960 05 - 0960 26	129
0960 06 - 0960 27	234
0960 07 - 0960 28	339
0960 08 - 0960 29	345

Data sheet available on request

Three materials

Climatic conditions, mechanical stresses or chemical constraints relating to the type of industry require careful consideration on site.



Polyester



Aluminium



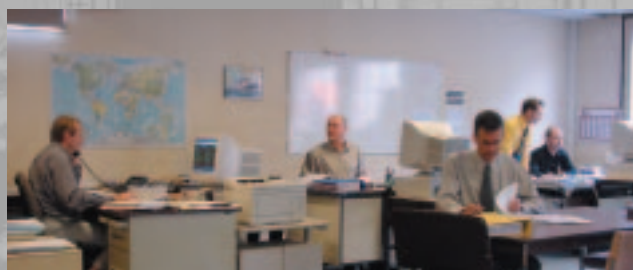
Stainless steel

Quotation on request

ATX offers you a wide range of combinations derived from standard products or made and wired to order from specifications, plans and drawings, etc. simply send your request to the technical department via ATX distributors or agents.

E-mail: cotation@atx.fr

Fax: 33 (0) 1 48 63 77 82



Junction/instrumentation boxes increased safety



0959 54



0959 65

Black polyester boxes

- Reinforced fibreglass and carbon
- Cover closed with stainless steel screws (except Cat. No. 0959 57: cover mounted on hinges and closed with a lock)
- Earth stud available on request
- Equipped with DIN rail only for Cat. Nos. 0959 50/51/52

To be equiped and drilled

Ext. dimensions (mm) length x width x depth	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
120 x 110 x 95	0.7	2.3	0959 50	1
170 x 110 x 95	0.9	2.7	0959 51	1
230 x 110 x 95	1	4.9	0959 52	1
215 x 200 x 150	2.9	12.5	0959 53	1
320 x 200 x 150	3.9	14.5	0959 54	1
425 x 200 x 150	4.5	23	0959 55	1
575 x 200 x 150	8.8	44.3	0959 56	1
300 x 400 x 200	9.3	35	0959 57	1

Equiped and drilled

- Earth continuity plate
- Terminals live + earth

Ext. dimensions (mm) length x width x depth	Earth continuity plate/entries	Terminals	Cat. No.	Pack
120x110x95	4M20(one each side)	12x2.5 (10 live+2 earth)	0959 10	1
120x110x95	4M20(2 top+2 bottom)	12x2.5 (10 live+2 earth)	0959 12	1
170x110x95	6M20(3 top+3 bottom)	22x2.5 (20 live+3 earth)	0959 14	1

Grey painted aluminium boxes

- Cover closed with stainless steel screws
- M8 earth stud (Cat. Nos. 0959 63 to 66) or external earth screw (Cat. Nos. 0959 60/61/62)
- Equipped with DIN rail only for Cat. Nos. 0959 60/61/62

Catalogue numbers

Ext. dimensions (mm) length x width x depth	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
120 x 110 x 95	0.9	2.3	0959 60	1
170 x 110 x 95	1.2	2.7	0959 61	1
230 x 110 x 95	1.5	4.9	0959 62	1
215 x 205 x 130	3.7	12.5	0959 63	1
320 x 205 x 130	4.8	11.6	0959 64	1
425 x 205 x 130	5.6	16.8	0959 65	1
480 x 380 x 190	11	53.8	0959 66	1

316 L stainless steel boxes:

- Increased safety boxes (see page 151)
- Intrinsic safety instrumentation boxes (see page 153)
- Undrilled junction boxes (see pages 150-151)
- Cable glands (see pages 252/254/257/258/ and 259)

Part number in bold : fast moving references

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-19
 - EC 0081 II 2 G for gas EEx e II T6
 - EC 0081 II 2 D T = + 55°C PCe
T = + 85°C CAe } For dust

• According to IEC:

- Conforming standards IEC 60079-0/7 Ex e II T6
- DIPA 21 TA = + 55°C PCe
- DIPA 21 TA = + 85°C CAe

Certification :

LCIE no.	CENELEC	IEC	Certified type PCe	EC declaration of conformity
Cat. Nos. 0959 50/51/52/60/61/62	00 ATEX 6047	Ex 00.017	PCe	50221
0959 53/54/55/56/57 63/64/65/66	02 ATEX 6248X	Ex 02.032X	CAe	50235

- Conforming to standards EN 50281-1-1 and IEC 61241-1-1
"combustible dust"

Protection index :

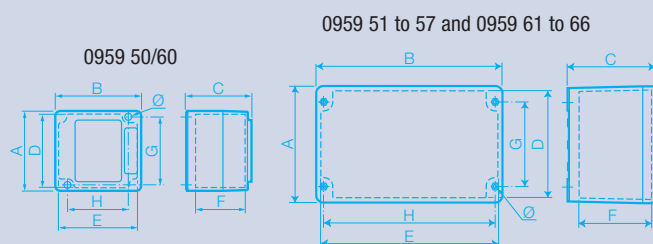
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

- 55°C to + 60°C (PCe)
- 40°C to + 55°C (CAe)

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :

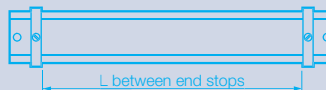


Cat. No.	Dimensions (mm)			Fixings						
	External			Internal			th.			
	A	B	C	D	E	F	G	H	pattes	Ø
0959 50	110	120	95	100	110	70	94	84	20	5
0959 51	110	170	95	100	160	70	94	134	20	5
0959 52	110	230	95	100	220	70	94	194	20	5
0959 53	200	215	150	185	200	125	146	189	6	6,5
0959 54	200	320	150	185	305	125	146	294	6	6,5
0959 55	200	425	150	185	410	125	146	399	6	6,5
0959 56	200	575	150	185	560	125	146	548	6	6,5
0959 57	405	305	200	392	290	190	366	326		8,2
0959 60	110	110	95	100	100	70	94	84	20	5
095961	110	170	95	100	160	70	94	134	20	5
0959 62	110	230	95	100	220	70	94	194	20	5
0959 63	205	215	130	190	200	105	146	186	10	6,5
0959 64	205	320	130	190	305	105	146	290	10	6,5
0959 65	205	425	130	190	410	105	146	398	10	6,5
0959 66	480	380	190	378	279	132	385	285	13	7

Zones 1 & 2 - 21 & 22		ATEX	IEC	EC	II 2 G/D
EEx e II	T6	T = 55 or 85°C		IP66	IK10

How to select a box

1. Technical characteristics of terminals used (see page 160)
2. Permissible number of terminals and maximum authorised dissipated power



DIN rail

Cat. No.	L mm	Permissible number of rails	Permissible no. of terminals with the same pitch per rail							Earth bar	Max. dissipated power (W)
			Nominal cross-section (mm ²) and pitch (mm)								
			2.5	4	6	10	25	35	70		
0959 50	62	1	12	10	7	-	-	-	-	-	6
0959 51	112	1	22	18	14 ⁽¹⁾	5 ⁽²⁾	4 ⁽²⁾	-	-	-	11
0959 52	172	1	34	28	21 ⁽¹⁾	5 ⁽²⁾	4 ⁽²⁾	-	-	-	16
0959 53	147	2	29	24	18	14	12	9	6	1	17
0959 54	255	2	51	42	31	25	21	17	11	1	22
0959 55	360	2	72	60	45	36	30	24	16	1	29
0959 56	510	2	102	85	63	51	42	34	23	1	36
0959 57	195	3	39	32	24	19	16	13	8	1	55
0959 60	62	1	12	10	7	-	-	-	-	-	6
0959 61	112	1	22	18	14 ⁽¹⁾	5 ⁽²⁾	4 ⁽²⁾	-	-	-	11
0959 62	172	1	34	28	21 ⁽¹⁾	5 ⁽²⁾	4 ⁽²⁾	-	-	-	16
0959 63	147	2	29	24	18	14	12	9	6	1	17
0959 64	255	2	51	42	31	25	21	17	11	1	22
0959 65	360	2	72	60	45	36	30	24	16	1	29
0959 66	330	2	66	55	42	33	27	22	15	1	36

(1) Number of terminals limited to 10 for connection in 10°

(2) On vertical rail only

Note: • Terminals with a pitch of 6 and 8 can be equipped with screening strips
• Possibility of two earth bars with a single DIN rail

Machining centre at your service

ATX places its industrial know how at your service, providing extremely accurate drilling and machining in a wide variety of materials (polyamide, stainless steel, aluminium, polyester, etc), as well as mounting and internal wiring of electrical equipment, to create control stations and electrical accessory enclosures to your specifications

**Machining centre at the
Amiens factory**



Quotation available on request

ATX offers you a wide range of combinations derived from standard products or made and wired to order from specifications, plans, drawings, etc. Simply send your request to the quotation department via ATX distributors or agents.
E-mail: cotation@atx.fr
Fax: 33 (0) 1 48 63 77 82

ATX technical department



JUNCTION AND INSTRUMENTATION BOXES AND ENCLOSURES “e”, “d” AND “i”

Request for quotation

Please fax your request to + 33 (0)1 48 63 77 82

- If necessary, attach a drawing or accurate sketch
- Use one form per box or enclosure

Your details

Company name:
 Town: Postcode:
 Your name:
 Project:
 Tel: Fax:
 e-mail:

Selection of protection mode (tick the appropriate column)

Materials	“e”	“i”	“d” IIB	“d” IIC	Zone 21	Zone 22
• Stainless steel						
• Polyester						
• Aluminium						
• Polycarbonate						

Box configuration

Write on each face the number and type of cable entries (electrical, metric, NPT, etc), the cross-section and the earthing

Box Cat. No.

Failing that, the box internal dimensions (mm)

_____ Length
 _____ Width
 _____ Depth

Type of cable and Description

- Non-armoured _____
 Armoured _____
 Instrumentation _____

Cable glands and blanking plugs

- yes no
 Mounted
 yes no

Earthing plates (brass)

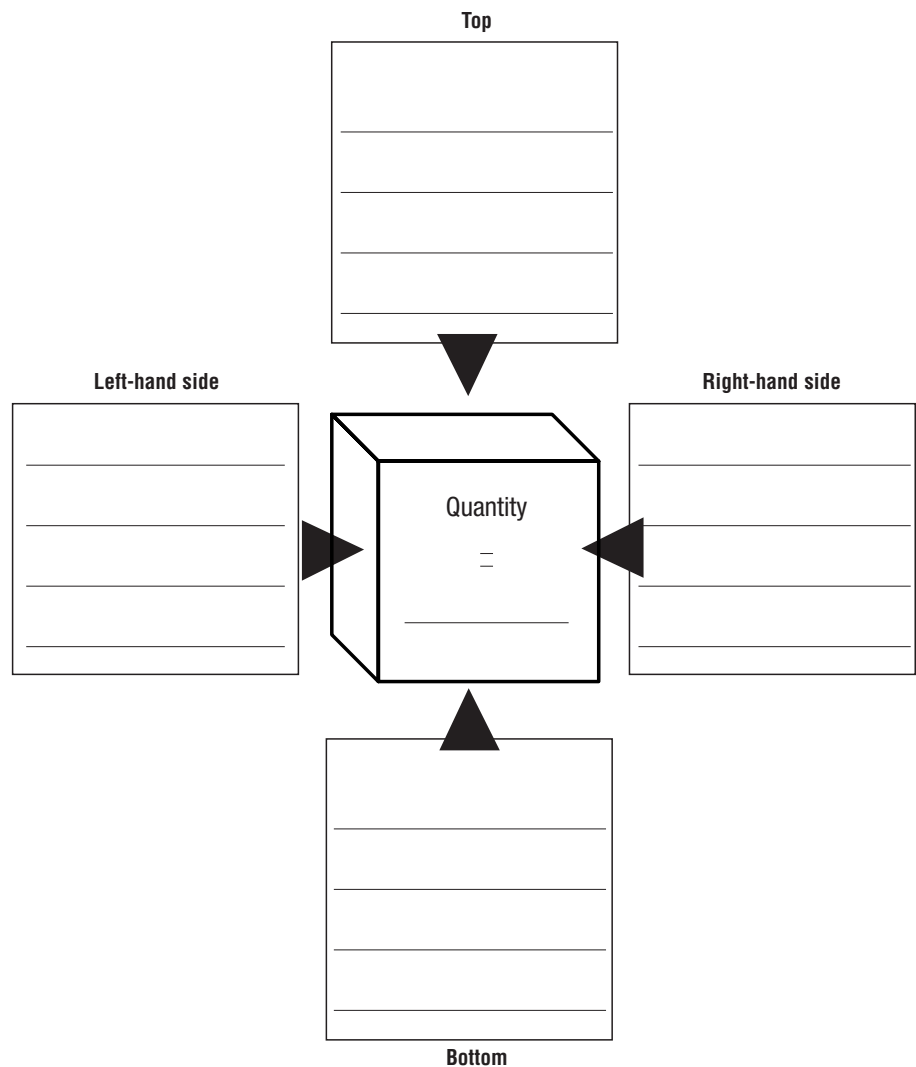
- yes no

Earth bar 12 x 4 mm

- yes no

Earth stud

- yes no



Internal components

Other components:

Number of terminals	Width	Cat. No. and brand	Number of shielding	



0932 00



0932 02

Grey painted cast iron and marine grade aluminium alloy

- Flanged flameproof joint
- M6 earth stud
- Supplied with Gravoply 63 x 18 mm identification labels and fixing rivet
- Terminals not supplied
- ISO threaded entries (see table below)
- Equipped with 1 or 2 EN 50022 protected steel \sqcap Din rails depth 7.5 mm
- 1 internal earth terminal

Cast iron

Dimensions length x width x depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
130 x 130 x 90	3.8	5	0932 00	1
205 x 145 x 127	7.7	8	0932 01	1
270 x 190 x 120	15.2	13	0932 02	1

093200: Only 1 rail possible in the middle

Marine grade aluminium alloy

Dimensions length x width x depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
370 x 270 x 208	13	24.5	0932 04	1

For special options, please consult us:

Cable gland (see pages 252/254/262 and 263)

NEW



Zones 1 & 2 - 21 & 22		ATEX	IEC	EC	II 2 G/D
EEx d IIB	T6	T = 85°C	IP66	IK10	

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 Ex II 2 G for gas EEx d IIB T6
 - EC 0081 Ex II 2 D - T = + 85°C for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1 Ex d IIB T6
 - DIPA 21 TA = + 85°C

Certification :

Cat. Nos.	Approved type	CENELEC	IEC	EC declaration of conformity
0932 00	CF2C			
0932 01	CF2A	03 ATEX 6061X	Ex 03.006X	50254
0932 02	CF2B			
0932 04	CF20B	02 ATEX 6057X	Ex 02.006X	50229

- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

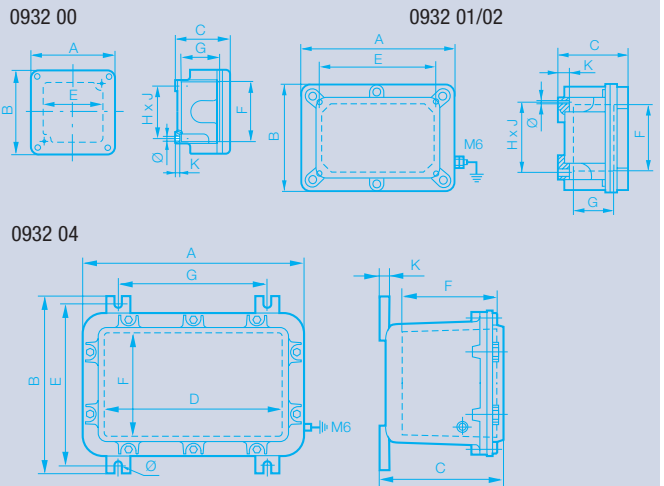
Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature : - 40°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :



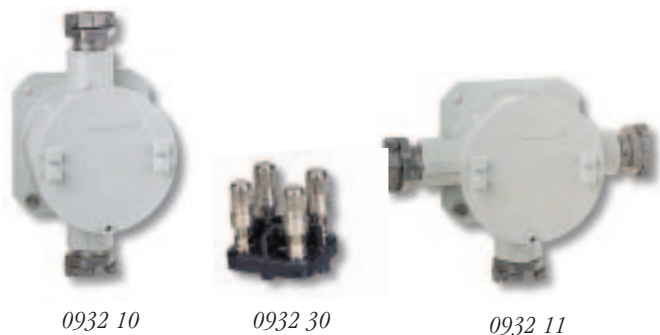
Drill holes

Cat. Nos	Threaded entries per face						Number of rails \sqcap
	A	B	C	C	C	D	
	M 20	M 20	M 20	M 25	M 32	M 20	
0932 00	1	1	2	-	-	1	1
0932 01	2	1	3	-	-	1	1
0932 02	-	2	3	1	-	2	1
0932 04	-	3	5	-	1	3	2(1)

(1) Only one rail can be mounted in the middle

Cat. Nos.	Dimensions External						Dimensions Internal						Fixings	
	A	B	C	D	E	F	G	H	K	Ø	L(2)			
0932 00	130	130	90	90	90	65	86	86	10	7	64			
0932 01	202	144	127	155	95	65	156	98	12	7	120			
0932 02	267	187	120	200	120	78	202	122	12	7	162			
0932 04	370	270	208	300	175	159	250	245	15	11	2 x 200			

(2) Total terminal block length, including 8 mm stops



Grey painted marine grade aluminium alloy

- Threaded flameproof joint
- Internal earth: 4 x M4 screws for Ø 4 mm lugs
- External earth: M5 screw
- Terminal block to be ordered separately

Threaded entries with M25 integrated cable gland

- for flexible cable: – sealed Ø: 9 to 15 mm (0934 96)
- Grip Ø: 22 mm max.

	Weight (kg)	Volume (dm ³)	Cat. No.	Pack
2 x M25 entries ((through) 2 integrated cable glands supplied	0.8	2	0932 10	1
3 x M25 entries (in a "T") 3 integrated cable glands supplied	0.8	2	0932 11	1
4 x M25 entries (in a cross) 4 integrated cable glands supplied	0.9	2	0932 12	1

Threaded entries for M20 cable gland (not supplied)

	Weight (kg)	Volume (dm ³)	Cat. No.	Pack
2 x M20 entries (in a line)	0.7	2	0932 19	1
3 x M20 entries (in a "T")	0.7	2	0932 20	1
4 x M20 entries (in a cross)	0.8	2	0932 21	1

Threaded entries for NPT 3/4" cable gland (not supplied)

	Weight (kg)	Volume (dm ³)	Cat. No.	Pack
2 x 3/4" NPT entries (in a line)	0.7	2	0932 16	1
3 x 3/4" NPT entries (in a "T")	0.7	2	0932 17	1
4 x 3/4" NPT entries (in a cross)	0.8	2	0932 18	1

Accessories

	Weight (kg)	Volume (dm ³)	Cat. No.	Pack
Ceiling rose equipped with 4 terminals 4 x 4 mm ² or 2 x 6 mm ² cables	0.1	0.4	0932 30	1
Cable glands Cat. Nos. 0932 10/11/12	0.6	0.9	0934 96	5
DIN rail for terminals block	0.1	0.4	0939 58	1

Cable gland
(see pages 252/254/262 and 263)



Part number in bold : fast moving references

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx d IIC	T5	T = 85°C	IP66	IK10

TECHNICAL DATA

Zones :

- 1 and 2 and 21 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 Ex II 2 G for gas EEx d IIC T6
 - EC 0081 Ex II 2 D - T = + 85°C for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1 Ex d IIC T6
 - DIPA 21 TA = + 85°C

Certification :

- Approved type BR1d
- CENELEC LCIE Ex 02 ATEX 6056
- IEC LCIE Ex 02.005
- CE declaration of conformity 50230
- Conforming to standard EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

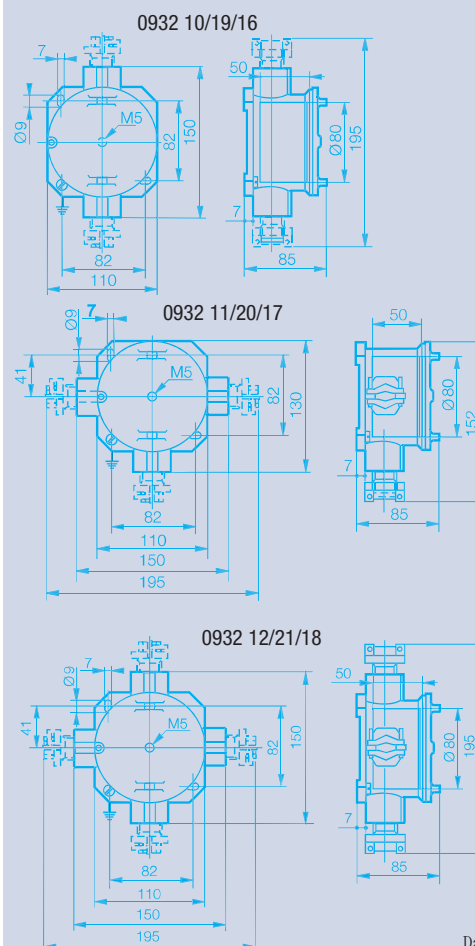
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

- 40°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :



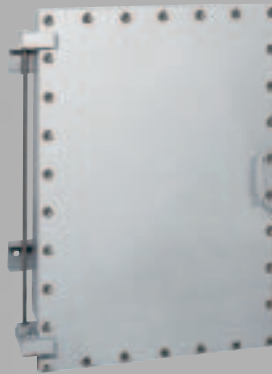
Data sheet available on request

Three materials

Climatic conditions, mechanical stresses or chemical constraints relating to the type of industry require careful consideration on site.



Marine grade aluminium alloy



Painted cast iron or steel



Stainless steel

Quotation on request

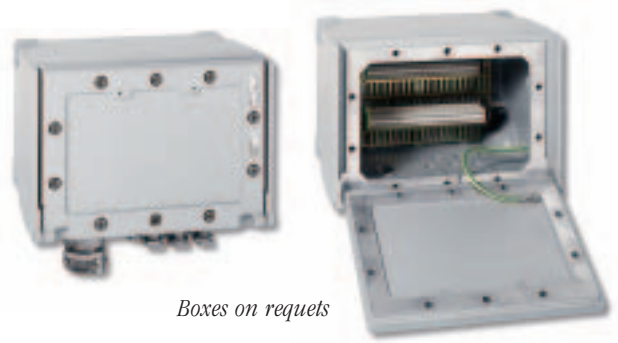
ATX offers you a wide range of combinations derived from standard products or made and wired to order from specifications, plans, drawings, etc. Simply send your request to the quotation service via ATX distributors or agents.

E-mail : cotation@atx.fr

Fax : + 33 (0) 1 48 63 77 82



IIB junction and connection boxes flameproof



Boxes on request

Junction and connections boxes

- Important: machining and drilling undertaken exclusively in our workshops
- Junction blocks
- Wiring distribution blocks
- Busbar system
- All types of connection process
- The cable entries can be distributed over all four faces

Grey painted cast iron boxes

- M8 earth stud
- Back plate (Cat. Nos. 0953 10/0953 13)
- Stainless steel external fixing screws

Available dimensions

External dimensions ht x width x depth (mm)	Empty weight (Kg)	Volume (dm ³)	Cat. Nos.	Pack
130 x 130 x 90	4.4	5	0953 10	1
205 x 145 x 100	9.5	6	0953 11	1
270 x 190 x 120	13.8	13	0953 13	1

Grey marine grade aluminium alloy boxes

- Stainless steel external fixing screws
- M8 earth stud
- Back plate supplied (pre-drilled zinc-plated bichromate sheet steel)
- Hinged cover (Cat. Nos. 0954 06/07/09/10/12)

Available dimensions

External dimensions ht x width x depth (mm)	Empty weight (Kg)	Volume (dm ³)	Cat. Nos.	Pack
260 x 270 x 208	10	17.4	0954 03	1
370 x 270 x 208	13	24.5	0954 05	1
340 x 320 x 230	30.5	235.2	0954 06	1
455 x 320 x 347	50.5	368.7	0954 07	1
455 x 440 x 347	60	368.7	0954 09	1
680 x 440 x 413	112	646.6	0954 10	1
680 x 640 x 413	128	646.6	0954 12	1

Large grey painted marine grade aluminium alloy enclosures

- Stainless steel external fixing screws, M8 earth stud
- Back plate
- Hinged cover

External dimensions ht x width x depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
880 x 575 x 308	120	160	0953 39	1
1092 x 780 x 332	204	300	0953 40	1
1216 x 606 x 302	140	250	0953 41	1
1216 x 606 x 455	220	350	0953 42	1

For special options, please consult us:

- Stainless steel and painted cast iron enclosures
- Quotation enquiry form (page 239)

Part number in bold : fast moving references

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification:

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d IIB T6
 - EC 0081 II 2 D - T = + 85°C for dust (excluding JBEW enclosure)
- According to IEC :
 - DIPA 21 Ta = + 85°C (excluding JBEW enclosure)

Certification :

Cat. Nos	Approved type	CENELEC	IEC	EC declaration of conformity
0953 10	CF2C			
0953 11	CF2A	03 ATEX 6061X	Ex 03.006X	50254
0953 13	CF2B			
0954 03	CF10B			
0954 05	CF20B			
0954 06	CF30B			
0954 07	CF40B	02 ATEX 6057X	Ex 02.006X	50229
0954 09	CF50B			
0954 10	CF60B			
0954 12	CF70B			
0953 39 to 42	JBEW	03 ATEX 6169X	Ex 03.035X	50272

- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust" (excluding JBEW enclosure)

Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

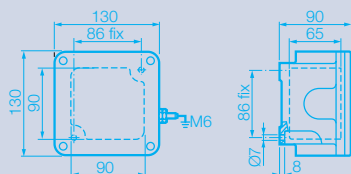
Operating temperature :

- 40°C to + 55°C (for CF10B, 20B, 40B, 50B and JBEW)
- 20°C to + 55°C (for CF30B, 60B, 70B)

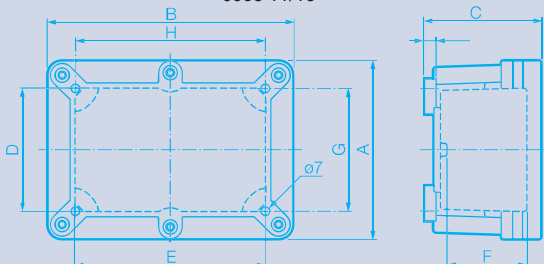
Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :

0953 10



0953 11/13

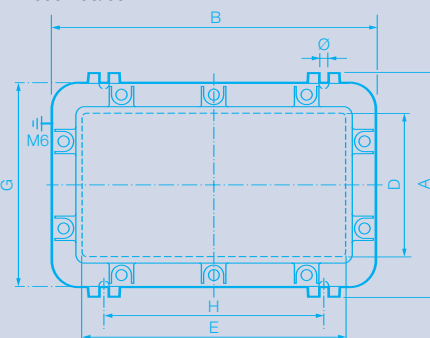


Cat. No.	External			Internal			Fixings		lug thick.	Ø
	A	B	C	D	E	F	G	H		
0953 10	130	130	90	90	90	65	86	86	10	7
0953 11	145	205	100	100	155	65	98	156	10	7
0953 13	190	270	120	120	200	78	122	202	12	7

Zone 1 & 2 - 21 & 22			ATEX	IEC	EC	II 2 G/D
EEx d IIB	T6	T = 85°C	IP 66	IK 10		

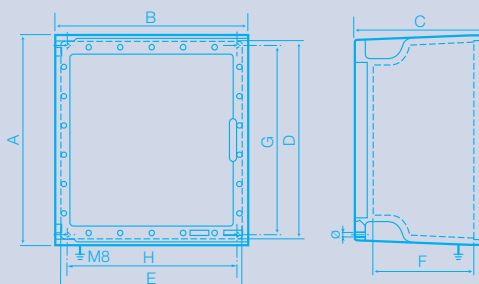
Dimensions (mm) :

0954 03/05



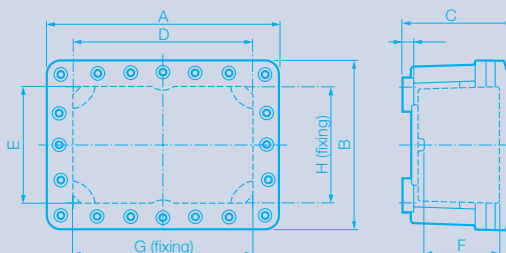
Cat. No.	External			Internal			Fixings		lug thick.	Ø
	A	B	C	D	E	F	G	H		
0954 03	270	260	208	175	190	159	245	140	15	11
0954 05	270	370	208	175	300	159	245	250	15	11

Réf. 0954 06/07/09/10/12



Cat. No.	External			Internal			Fixings		lug thick.	Ø
	A	B	C	D	E	F	G	H		
0954 06	340	320	230	291	271	162	298	278	20	9
0954 07	455	320	347	401	266	257	391	256	25	11
0954 09	455	440	347	401	386	251	391	376	25	11
0954 10	680	440	413	616	376	290	616	376	25	14
0954 12	680	640	413	616	576	290	616	576	25	14

Cat. No.	External			Internal			Fixings		lug thick.	Ø
	A	B	C	D	E	F	G	H		
0953 39	879	575	308	768	463	196	584	552		
0953 40	1092	781	332	921	615	247	737	711		
0953 41	1216	606	302	1073	473	178	974	584		
0953 42	1216	606	455	1073	473	331	974	584		



Data sheet available on request

ATX Safety Plus

Total ingress protection

**ATX
PATENT**



Ingress protection of earth continuity ensured by a anticorrosion O ring seal. Can be inspected, and protected against U.V and mechanical impact (tearing).

Ease of assembly



Just one clamping ring with only one way to assemble. Quick conversion of cable gland with compression seal to a barrier gland by use of a compound chamber.

Protection Assured



Design of inner compression locking nut retains inner seal during inspection of earth continuity.

No mechanical stress on outer sheath



Progressive tightening through a conical seal protects the outer sheath from warping.

A.T.X.®

IIC junction and connection boxes flameproof



0953 06



0954 04

Customised aluminium boxes

Junction and connection boxes

- Important : machining undertaken exclusively in our workshops
- Junction blocks
- Busbar system
- Terminal plates
- All types of connection process

Grey painted cast iron boxes

- Screw cover
- Internal earth terminal 10 mm²
- External earth terminal: M5 screw
- DIN rail
- Threaded flameproof joint

Catalogue number

External dimensions length x width x depth (mm)	Empty weight (Kg)	Volume (dm ³)	Cat. Nos.	Pack
167 x 167 x 126	4.7	4.7	0953 00	1

Grey painted marine grade aluminium alloy boxes

- Cover:
 - spigot type for Cat. No. 0953 01/03/04/06
 - threaded joint for Cat. Nos. 0954 02/04/08
 - threaded joint and hinges type for Cat. No. 0954 11
- Internal earth terminal 10 mm² for Cat. No. 0953 06
- External earth terminal : M6 screw Cat. No. 0953 06
- M8 earth stud for Cat. Nos. 0954 02/04/08/11

Catalogue numbers

External dimensions ht x width x depth (mm)	Empty weight (Kg)	Volume (dm ³)	Cat. Nos.	Pack
140 x 162 x 121	1.5	2.2	0953 06	1
185 x 170 x 170	3	4	0953 02	1
210 x 230 x 125	4	5.5	0953 01	1
230 x 215 x 238	12	15.5	0954 02	1
295 x 265 x 195	10	9.6	0953 03	1
320 x 340 x 234	27.5	235.2	0954 04	1
360 x 335 x 200	10	14.6	0953 04	1
440 x 455 x 345	57.5	368.7	0954 08	1
680 x 640 x 450	310	646.6	0954 11	1

For special options, please consult us :

- **Metallic and painted cast iron enclosures**
- Cable gland (see pages 252/254/262 and 263)

Part number in bold : fast moving references

Zones 1 & 2 - 21 & 22		ATEX	IEC	EC	II 2 G/D
EEx d IIC	T6 - T5	T = + 85°C	IP66	IK10	

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d IIC - T6 for Ta ≤ + 40°C
T5 for + 40°C < Ta ≤ + 55°C
 - EC 0081 II 2 D - T = + 85°C for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1 Ex d IIC - T6 for Ta ≤ + 40°C
T5 for + 40°C < Ta ≤ + 55°C
 - DIPA 21 TA = + 85°C for dust

Certification :

Cat. No.	Type	CENELEC	IEC	EC declaration of conformity
0953 00	CF1F	03 ATEX 6044X	Ex 03.003X	50257
0953 01	CF1B			
0953 02	CF1C			
0953 03	CF1A			
0953 04	CF1D			
0953 06	CF1E			
0954 02	CF10C	02 ATEX 6057X	Ex 02.006X	50229
0954 04	CF30C			
0954 08	CF50C			
0954 11	CF70C			

- Conforming to standards EN 50241-1-1 and IEC 61241-1-1
"combustible dust"

Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

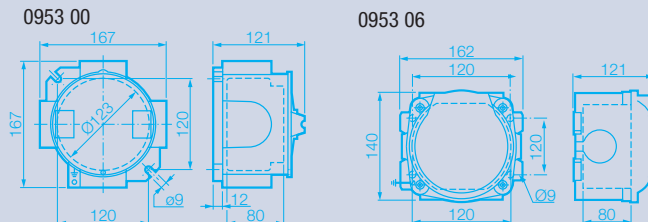
- 20°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

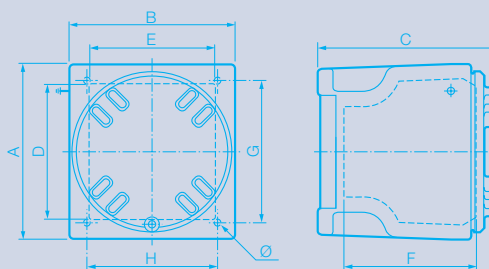
Dimensions (mm) :

Detailed tables of temperature classes according to the dissipated power of internal equipment and ambient temperature are available on request.

Dimensions (mm) :



0953 01/02/03/04 - 0954 02/04/08/11



Cat. Nos.	Dimensions (mm)			Fixings						
	External			Internal			G	H	lug thick.	Ø
	A	B	C	D	E	F				
0953 00	167	167	126	123	123	80	120	120	12	9
0953 01	230	210	125	175	175	90	210	100	15	9
0953 02	185	170	170	140	130	135	168	91	15	7
0953 03	265	295	195	215	215	160	230	262	15	11
0953 04	360	335	200	280	280	155	320	298	15	12
0953 06	140	162	121	120	120	80	120	120	12	9
0954 02	230	215	238	180	165	175	188	173	20	9
0954 04	320	340	234	271	291	154	278	298	20	9
0954 08	440	455	345	386	401	241	376	391	25	11
0954 11	680	640	450	616	576	290	616	576	25	14



Junction and connections boxes

- Important: machining undertaken exclusively in our workshops
- Electrical equipment, which can be controlled externally, if required, via push-buttons, switch handle, etc.
- Power control gear
- Control system relays
- Distribution
- Electronic plate
- Glass inspection window
- Identification labels engraved with text of your choice
- Can be assembled to make switchboards for wall fixing or fixing on a floor-mounted chassis, etc.

Grey painted mechanically-welded steel enclosures

- M8 earth stud
- Back plate supplied (galvanised steel plate)
- Hinged cover
- Stainless steel external fixing screws
- Dimensions below in mm

Catalogue numbers

External (mm) height x width x depth	Internal (mm) height x width	Weight (Kg)	Volume (dm ³)	Cat. Nos.	Pack
326 x 297 x 213	300 x 270	92	234	0953 44	1
441 x 286 x 318	415 x 260	152	236	0953 45	1
441 x 411 x 318	415 x 385	180	369	0953 46	1
661 x 401 x 381	635 x 375	336	647	0953 47	1
669 x 609 x 382	635 x 575	384	647	0953 48	1
796 x 650 x 400	700 x 500	268	698	0953 23	1
796 x 750 x 400	700 x 600	298	698	0953 24	1
796 x 850 x 400	700 x 700	318	698	0953 25	1
896 x 650 x 400	800 x 500	298	698	0953 26	1
896 x 750 x 400	800 x 600	318	698	0953 27	1
896 x 850 x 400	800 x 700	308	698	0953 28	1
996 x 650 x 400	900 x 500	348	698	0953 29	1
996 x 750 x 400	900 x 600	348	698	0953 30	1
1125 x 730 x 412	1000 x 550	395	1144	0953 31	1
1125 x 810 x 412	1000 x 630	430	1144	0953 32	1
1125 x 880 x 412	1000 x 700	452	1144	0953 33	1
1325 x 730 x 412	1200 x 550	445	1144	0953 34	1
1325 x 810 x 412	1200 x 630	485	1144	0953 35	1
1325 x 880 x 412	1200 x 700	515	1144	0953 36	1
1525 x 730 x 412	1400 x 550	495	1144	0953 37	1
1525 x 810 x 412	1400 x 630	540	1144	0953 38	1

For special options, please consult us:

- 316 stainless steel version

Cable gland (see pages 252/254/262 and 263)

Part number in bold : fast moving references

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx d IIB	T6	T = + 85°C	IP66	IK10

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification:

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d IIB T6
 - EC 0081 II 2 D - T = +85°C for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1 Ex d IIB T6
 - DIPA 21 Ta = + 85°C

Certification :

- Approved type CMS
- CENELEC LCIE 02 ATEX 6247X
- IEC LCIE Ex 02.031X
- **CE** declaration of conformity 50236
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

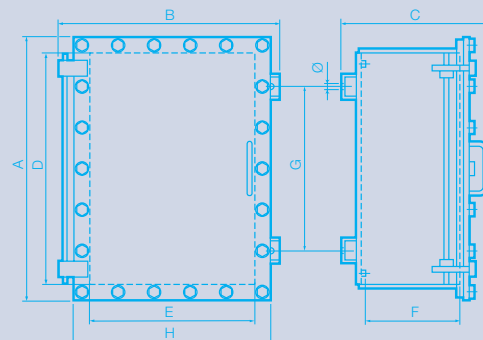
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

- 20°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :



Mechanically-welded steel boxes

Cat. Nos.	Dimensions			Internal			Fixings			Approved type
	A	B	C	D	E	F	G	H	Ø	
0953 23	796	650	400	700	500	295	500	600	18	CMS47
0953 24	796	750	400	700	600	295	500	700	18	CMS43
0953 25	796	850	400	700	700	295	500	800	18	CMS46
0953 26	896	650	400	800	500	295	600	600	18	CMS44
0953 27	896	750	400	800	600	295	600	700	18	CMS40
0953 28	896	850	400	800	700	295	600	800	18	CMS42
0953 29	996	650	400	900	500	295	600	600	18	CMS45
0953 30	996	750	400	900	600	295	600	700	18	CMS41
0953 31	1125	730	412	1000	550	295	700	660	22	CMS57
0953 32	1125	810	412	1000	630	295	700	740	22	CMS52
0953 33	1125	880	412	1000	700	295	700	810	22	CMS55
0953 34	1325	730	412	1200	550	295	900	660	22	CMS53
0953 35	1325	810	412	1200	630	295	900	740	22	CMS50
0953 36	1325	880	412	1200	700	295	900	810	22	CMS54
0953 37	1525	730	412	1400	550	295	1100	660	22	CMS56
0953 38	1525	810	412	1400	630	295	1100	740	22	CMS51
0953 44	396	439	310	300	270	180	200	370	18	CMS 3
0953 45	511	429	415	415	260	285	315	360	18	CMS 4
0953 46	511	554	415	415	385	285	315	485	18	CMS 5
0953 47	731	544	475	635	375	345	455	475	18	CMS 6
0953 48	731	744	490	635	575	345	470	675	18	CMS 7

Wide range of EEx “e” and EEx “d” uses



The new range of EEx “e” and EEx “d” cable glands for armoured cables offers many more advantages:

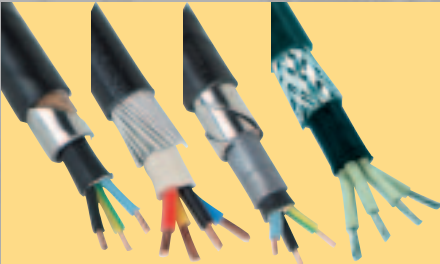
- total ingress protection
- no mechanical stress on outer sheath of cable
- no risk of losing seal
- error-free assembly

ATX “Safety Plus”

Introducing ATX Safety Plus with the new range of cable glands:

- ease of modification on site
- no problems fitting any type of armoured cable (tape, lead sheath, braid, wire)
- ease of installation

All armoured cables



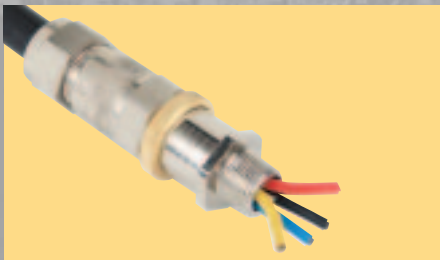
Metric thread



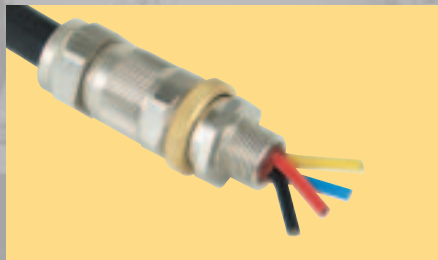
NPT tapered thread



With elastomer seal



With compound seal

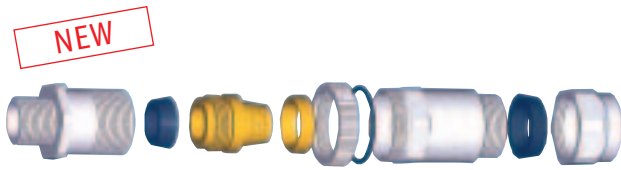


Wide range of EEx “e” and EEx “d” cable glands and accessories

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Cable gland for armoured cables increased safety and flameproof



Inspectable

Cable gland with elastomer compression seal

- For types of armoured cable: with wire, braid, tape or lead sheath.
- Nickel-plated brass: high degree of protection against corrosion and reduces galvanic effect regardless of enclosure material.
- **Patented** : compressed "O" ring protected by a knurled cap to ensure complete protection against corrosion of the cable armour
- Admissible thickness for armours, wire, braid, tape (see opposite)

Cable gland with metric thread

- Supplied with a nylon seal for ingress protection

Thread and size	cable capacity (mm)				Weight (Kg)	Cat. Nos.	Pack
	Inner sheath		Outer sheath				
M16	3	8.7	7	13.5	0.190	0955 70	5
M20ss	3	8.7	7	13.5	0.210	0955 71	5
M20s	6	11.9	9.5	16	0.180	0955 72	5
M20	7.5	14.3	13.5	21	0.305	0955 73	5
M25	11	20.2	17	27.1	0.520	0955 74	5
M32	17	26.5	22.5	34	0.850	0955 75	1
M40	22	32.5	28	40.5	1.290	0955 76	1
M50s	28.9	38.5	35	47	1.500	0955 77	1
M50	35.5	44.4	38	53.5	1.900	0955 78	1
M63s	39.9	50	45.5	59.5	2.400	0955 79	1
M63	47	56.3	54.5	66	2.700	0955 80	1
M75s	50.5	62	57	72.5	3.800	0955 81	1
M75	59	68.2	64	78.5	4.500	0955 82	1
M90	66.5	79.5	69	90.5	5.900	0955 83	1
M100	78	91.6	89	104.5	6.450	0955 84	1

Cable gland with NPT tapered thread

Thread and size	Cable capacity (mm)				Weight (Kg)	Cat. No.	Pack
	Inner sheath		Outer sheath				
NPT 1/2"ss	3	8.7	7	13.5	0.210	0933 52	5
NPT 1/2"s	6	11.9	9.5	16	0.180	0933 53	5
NPT 1/2"	7.5	14.3	13.5	21	0.305	0933 54	5
NPT 3/4"ss	6	11.9	9.5	16	0.180	0933 67	5
NPT 3/4"s	7.5	14.3	13.5	21	0.305	0933 66	5
NPT 3/4"	11	20.2	17	27.1	0.520	0933 55	5
NPT 1"	17	26.5	22.5	34	0.850	0933 56	1
NPT 1"1/4	22	32.5	28	40.5	1.290	0933 57	1
NPT 1"1/2	22	32.5	28	40.5	1.290	0933 68	1
NPT 2"s	28.9	38.5	35	47	1.500	0933 58	1
NPT 2"	35.5	44.4	38	53.5	1.900	0933 59	1
NPT 2"1/2s	39.9	50	45.5	59.5	2.400	0933 60	1
NPT 2"1/2	47	56.3	54.5	66	2.700	0933 61	1
NPT 3"s	50.5	62	57	72.5	3.800	0933 62	1
NPT 3"	59	68.2	64	78.5	4.500	0933 63	1
NPT 3"1/2	66.5	79.5	69	90.5	5.900	0933 64	1
NPT 4"	78	91.6	89	104.5	6.450	0933 65	1

- **Accessories (see page 256)**

Part number in bold : fast moving references

ATX CABLE GLANDS

ATX "Safety Plus"

Total ingress protection

ATX PATENT



Ingress protection of earth continuity ensured by protection anticorrosion "O" ring seal. Can be inspected, and protected against U.V and mechanical impact (tearing).

Ease of assembly



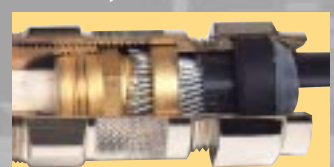
Just one clamping ring with only one way to assemble. Quick conversion of a cable gland with compression seal to a barrier gland by use of a compound chamber.

Protection Assured



Design of inner compression locking nut retains inner seal during the earth continuity inspection.

Outer sheath of cable protected



Progressive tightening through a conical seal protects the outer sheath from warping.

A.T.X.®

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification:

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18-19
 - EC 0539 II2 G for gas EEx e II or EEx d IIB or EEx d IIC ($V \leq 2000 \text{ cm}^3$)
 - EC 0539 II2 D for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1/7 Exe II or EEx d IIB or Ex d IIC ($V \leq 2000 \text{ cm}^3$)
- DIPA 21 for dust

Certification :

- Type ECMAR3
- CENELEC DEMKO 02 ATEX 133741X
- IEC DEMKO 133893-01
- declaration of conformity No. 50245
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"
- Conforming to BS 6021
- NPT tapered thread according to standards NF E 03 601
- Metric thread according to standards ISO 965/I/III

Protection index :

- IP66/67 and 68 (10m) according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

- 60°C to + 130°C

Anticorrosion treatment and climate protection : see page G50

- Nickel-plated brass: high degree of protection against corrosion and reduces galvanic effect regardless of enclosure material.
- Non nickel-plated brass for internal parts to ensure electrical continuity of armour earth.

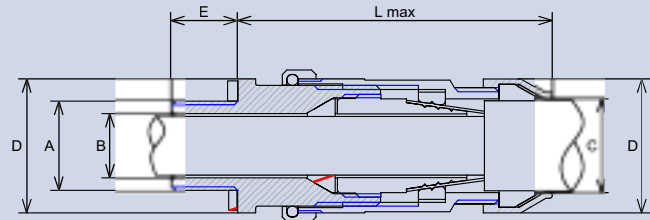
Product features/customer benefits :

- UV and shock protection O ring : **Durability**
- Progressive tightening through conical seal : **Cable protection**
- Interior tightening locknut on sheath : **Simplified inspection**
- 1 single clamping ring, 1 direction only : **Error free assembly**
- Brass taper and clamping ring : **Quality of the electrical connection**
- No armour slipping**

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II2G/D	IK 10
EEx e II ou EEx d IIB ou EEx d IIC				IP 66/67 & 68 (10m)	

Dimensions (mm) :

- for compression and compound seal cable glands



• Admissible armour thickness (wire, brais, tape) :

M16 to M20 and NPT 1/2"ss to NPT 3/4"s	: 0.25 to 1.25 mm
M25 and NPT 3/4"	: 0.25 to 1.60 mm
M32 to M40 and NPT 1" to NPT 1" 1/4	: 0.25 to 2 mm
M50s to M75 and NPT2"s to NPT3"	: 0.25 to 2.5 mm
M90 and M100, NPT 3"1/2 and NPT 4"	: 0.25 to 3.2 mm

• Cable glands with elastomer seal, tightening capacity and dimensions in mm :

Ref.	A	B		C		D	E	L
		min	max	min	max			
0955 70	M16 x 1.5	3	8.7	7	13.5	24/26.5	15	77.5
0955 71	M20ss x 1.5	3	8.7	7	13.5	24/26.5	15	77.5
0955 72	M20s x 1.5	6	11.9	9.5	16	24/26.5	15	76.5
0955 73	M20 x 1.5	7.5	14.3	13.5	21	30/33	15	93
0955 74	M25 x 1.5	11	20.2	17	27.1	38/41	15	105.5
0955 75	M32 x 1.5	17	26.5	22.5	34	46/51	15	127
0955 76	M40 x 1.5	22	32.5	28	40.5	55/60	15	138.5
0955 77	M50s x 1.5	28.9	38.5	35	47	60/65	15	152.5
0955 78	M50 x 1.5	35.5	44.4	38	53.5	70/75	15	155
0955 79	M63s x 1.5	39.9	50	45.5	59.5	75/80	15	156
0955 80	M63 x 1.5	47	56.3	54.5	66	80/85	15	154.5
0955 81	M75s x 1.5	50.5	62	57	72.5	90/100	15	170
0955 82	M75 x 1.5	59	68.2	64	78.5	100/110	15	173
0955 83	M90 x 2	66.5	79.5	69	90.5	115/125	25	169
0955 84	M100 x 2	78	91.6	89	104.5	127/140	25	169
0933 52	NPT 1/2"ss	3	8.7	7	13.5	24/26.5	20	77.5
0933 53	NPT 1/2"s	6	11.9	9.5	16	24/26.5	20	76.5
0933 54	NPT 1/2"	7.5	14.3	13.5	21	30/33	20	93
0933 67	NPT 3/4"ss	6	11.9	9.5	16	24/26.5	20	76.5
0933 66	NPT 3/4"s	7.5	14.3	13.5	21	30/33	20	93
0933 55	NPT 3/4"	11	20.2	17	27.1	38/41	20	105.5
0933 56	NPT 1"	17	26.5	22.5	34	46/51	25	127
0933 57	NPT 1"1/4	22	32.5	28	40.5	55/60	26	138.5
0933 68	NPT 1"1/2	22	32.5	28	40.5	55/60	26	138.5
0933 58	NPT 2"s	28.9	38.5	35	47	60/65	27	152.5
0933 59	NPT 2"	35.5	44.4	38	53.5	70/75	27	155
0933 60	NPT 2"1/2s	39.9	50	45.5	59.5	75/80	40	156
0933 61	NPT 2"1/2	47	56.3	54.5	66	80/85	40	154.5
0933 62	NPT 3"s	50.5	62	57	72.5	90/100	42	170
0933 63	NPT 3"	59	68.2	64	78.5	100/110	42	173
0933 64	NPT 3"1/2	66.5	79.5	69	90.5	115/125	42	169
0933 65	NPT 4"	78	91.6	89	104.5	127/140	44	169

Data sheet available on request

Cable gland for armoured cables increased safety and flameproof

NEW



Barrier cable gland with sealing compound

- Nickel-plated brass: high degree of protection against corrosion and reduces galvanic effect regardless of enclosure material.
- For types of armoured cable: with wire, braid, tape or lead sheath version armour.
- **Patented:** compressed "O" ring protected by a knurled cap to ensure complete protection against corrosion of the cable armour while maintaining the seal on the cable and external sheaths.
- Admissible thickness for armours, wire, braid, tape (see opposite)

Barrier with metric thread

- Supplied with a nylon seal for ingress protection

Thread and size	Cable capacity (mm)		Weight (Kg)	Cat. No.	Pack
	Inner sheath (max)	Outer sheath			
M20ss	8.7	7 13.5	0.210	0934 71	5
M20s	11.9	9.5 16	0.180	0934 72	5
M20	14.3	13.5 21	0.305	0934 73	5
M25	20.2	17 27.1	0.520	0934 74	5
M32	26.5	22.5 34	0.850	0934 75	1
M40	32.5	28 40.5	1.290	0934 76	1
M50s	38.5	35 47	1.500	0934 77	1
M50	44.4	38 53.5	1.900	0934 78	1
M63s	50	45.5 59.5	2.400	0934 79	1
M63	56.3	54.5 66	2.700	0934 80	1
M75s	62	57 72.5	3.800	0934 81	1
M75	68.2	64 78.5	4.500	0934 82	1
M90	79.5	69 90.5	5.900	0934 83	1
M100	91.6	89 104.5	6.450	0934 84	1

Barrier with NPT tapered thread

Thread and size	Cable capacity (mm)		Weight (Kg)	Cat. No.	Pack
	Inner sheath (max)	Outer sheath			
NPT 1/2"ss	8.7	7 13.5	0.210	0934 52	5
NPT 1/2"s	11.9	9.5 16	0.180	0934 53	5
NPT 1/2"	14.3	13.5 21	0.305	0934 54	5
NPT 3/4"ss	11.9	9.5 16	0.180	0934 67	5
NPT 3/4"s	14.3	13.5 21	0.305	0934 66	5
NPT 3/4"	20.2	17 27.1	0.520	0934 55	5
NPT 1"	26.5	22.5 34	0.850	0934 56	1
NPT 1"1/4	32.5	28 40.5	1.290	0934 57	1
NPT 1"1/2	32.5	28 40.5	1.290	0934 68	1
NPT 2"s	38.5	35 47	1.500	0934 58	1
NPT 2"	44.4	38 53.5	1.900	0934 59	1
NPT 2"1/2s	50	45.5 59.5	2.400	0934 60	1
NPT 2"1/2	56.3	54.5 66	2.700	0934 61	1
NPT 3"s	62	57 72.5	3.800	0934 62	1
NPT 3"	68.2	64 78.5	4.500	0934 63	1
NPT 3"1/2	79.5	69 90.5	5.900	0934 64	1
NPT 4"	91.6	89 104.5	6.450	0934 65	1

- **Accessories (see page 256)**

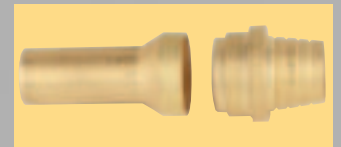
Part number in bold : fast moving references

ATX CABLE GLANDS

ATX "Safety Plus"

Barrier cable glands with sealing compound (resin) provide extra protection against the transmission of flames in flameproof enclosures. Some local regulations specify their use for IIC flameproof enclosures and IIB where the volume exceeds 2000 cm³ and sparking components.

Ease of modification on site

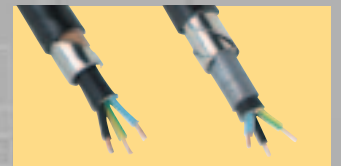


Rapid and easy conversion of cable glands with elastomer seals to barrier glands with sealing compound.

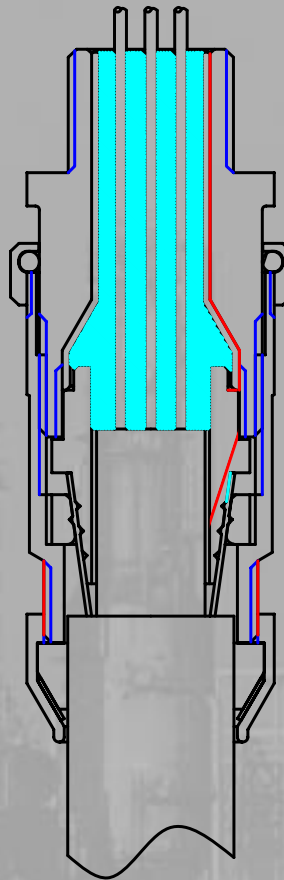
No fitting problems



Braid Wire



Tape Lead sheath



Ease of installation



Knurled tightening parts for fitting by hand in any weather with or without gloves.

On-site flexibility and stock reduction

Accessories common to both types of cable gland, with elastomer seal or sealing compound.

A.T.X.®

TECHNICAL DATA

Zones :

- 1 and 2 and 21-22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014 -18 -19
 - EC 0539 II2 G for gas EEx e II or EEx d IIB or EEx d IIC (all volumes)
 - EC 0539 II2 D for dust
- According to IEC :
 - Conforming to standards IEC 60079-0/1/7 Exe II or EEx d IIB or Ex d IIC ($V \leq 2000 \text{ cm}^3$)
 - DIPA 21 for dust

Certification :

- Type ECMAR3
- CENELEC DEMKO 02 ATEX 133741X
- IEC DEMKO 133893-01
- **CE** declaration of conformity No. 50245
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 (combustible dust)
- Conforming to BS 6021
- NPT tapered thread according to standards NF E 03 601
- Metric thread according to standards ISO 965/I/III

Protection index :

- IP66/67 and 68 (10m) according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

- 60°C to + 130°C

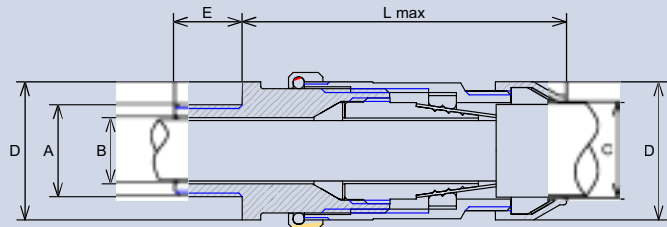
Anticorrosion treatment and climate protection : see page G50

- Nickel-plated brass: high degree of protection against corrosion and reduces galvanic effect regardless of enclosure material.
- Non nickel-plated brass for internal parts to ensure electrical continuity of armour earth.

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II2G/D
EEx e II or EEx d IIB or EEx d IIC		IP66/67 and 68 (10m)		
IK10				

Dimensions (mm) :

- for compression or compound seal cable glands :



• Admissible armour thickness (wire, braid, tape) :

M16 to M20 and NPT 1/2"ss to NPT 3/4"s	: 0.25 to 1.25 mm
M25 and NPT 3/4"	: 0.25 to 1.60 mm
M32 to M40 and NPT 1" to NPT 1" 1/4	: 0.25 to 2 mm
M50s to M75 and NPT2"s to NPT3"	: 0.25 to 2.5 mm
M90 and M100, NPT 3"1/2 and NPT 4"	: 0.25 to 3.2 mm

• Barrier cable gland with compound seal, tightening capacity and dimensions in mm :

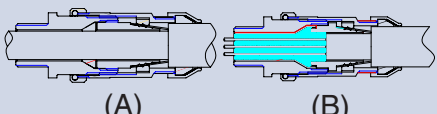
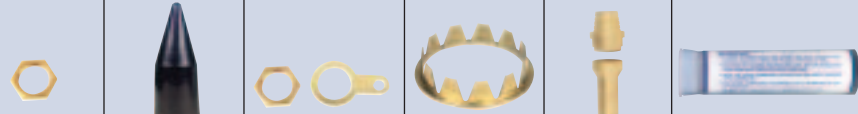
Ref.	A	B		C		D Across flats/ across corners	E mm	L max
		Max	Min	Max	Max			
0934 71	M20ss x 1.5	8.7	7	13.5		24/26.5	15	77.5
0934 72	M20s x 1.5	11.9	9.5	16		24/26.5	15	76.5
0934 73	M20 x 1.5	14.3	13.5	21		30/33	15	93
0934 74	M25 x 1.5	20.2	17	27.1		38/41	15	105.5
0934 75	M32 x 1.5	26.5	22.5	34		46/51	15	127
0934 76	M40 x 1.5	32.5	28	40.5		55/60	15	138.5
0934 77	M50s x 1.5	38.5	35	47		60/65	15	152.5
0934 78	M50 x 1.5	44.4	38	53.5		70/75	15	155
0934 79	M63s x 1.5	50	45.5	59.5		75/80	15	156
0934 80	M63 x 1.5	56.3	54.5	66		80/85	15	154.5
0934 81	M75s x 1.5	62	57	72.5		90/100	15	170
0934 82	M75 x 1.5	68.2	64	78.5		100/110	15	173
0934 83	M90 x 2	79.5	69	90.5		115/125	25	169
0934 84	M100 x 2	91.6	89	104.5		127/140	25	169
0934 52	NPT 1/2"ss	8.7	7	13.5		24/26.5	20	77.5
0934 53	NPT 1/2"s	11.9	9.5	16		24/26.5	20	76.5
0934 54	NPT 1/2"	14.3	13.5	21		30/33	20	93
0934 67	NPT 3/4"ss	11.9	9.5	16		24/26.5	20	76.5
0934 66	NPT 3/4"s	14.3	13.5	21		30/33	20	93
0934 55	NPT 3/4"	20.2	17	27.1		38/41	20	105.5
0934 56	NPT 1"	26.5	22.5	34		46/51	25	127
0934 57	NPT 1"1/4	32.5	28	40.5		55/60	26	138.5
0934 68	NPT 1"1/2	32.5	28	40.5		55/60	26	138.5
0934 58	NPT 2"s	38.5	35	47		60/65	27	152.5
0934 59	NPT 2"	44.4	38	53.5		70/75	27	155
0934 60	NPT 2"1/2s	50	45.5	59.5		75/80	40	156
0934 61	NPT 2"1/2	56.3	54.5	66		80/85	40	154.5
0934 62	NPT 3"s	62	57	72.5		90/100	42	170
0934 63	NPT 3"	68.2	64	78.5		100/110	42	173
0934 64	NPT 3"1/2	79.5	69	90.5		115/125	42	169
0934 65	NPT 4"	91.6	89	104.5		127/140	44	169

Data sheet available on request

TECHNICAL DATA

- Accessories common to both types of cable gland:
 - cable gland with compression seal
 - barrier cable gland with sealing compound
- Kit components material:
 - earth tag: brass
 - locknut: brass

- Use of a compound chamber and resin:
 - barrier cable glands with compound seals are supplied with chambers and tubes of sealing resin (cat. no. 0956 22 or 0956 23)
 - cable glands with elastomer seals may be converted quickly and simply by using a compound chamber and the right quantity of resin for the size and type of cable gland and the part number of the tube available on-site. Cat no. 0956 22 or 0956 23).

Cable glands			Accessories						
									
Thread and size 1	with elastomer seal (A)	with compound seal (B)	Locknuts	PVC Shroud	Earth tag kit with locknut	Clamping ring for lead sheath	Chamber (1)	Qty of tubes to be used per chamber (2) 095622 - 095623	
M16	095570 *		095707	095629 *	095609 *	095645 *	095665 *	1/3	/
M20ss	095571 *	093471 *	095701	095629 *	095610 *	095645 *	095665 *	1/3	/
M20s	095572 *	093472 *	095701	095629 *	095610 *	095646 *	095666 *	1/3	/
M20	095573 *	093473 *	095701	095630 *	095610 *	095647 *	095667 *	1/3	/
M25	095574 *	093474 *	095702	095631 *	095611 *	095648 *	095668 *	1/2	/
M32	095575	093475	095703	095632 *	095612 *	095649 *	095669	/	1
M40	095576	093476	095708	095633 *	095613 *	095650 *	095670	/	1
M50s	095577	093477	095709	095634 *	095614 *	095651 *	095671	/	1
M50	095578	093478	095709	095635 *	095614 *	095652 *	095672	/	1
M63s	095579	093479	095710	095636 *	095615 *	095653 *	095673	/	2
M63	095580	093480	095710	095637 *	095615 *	095654 *	095674	/	2
M75s	095581	093481	095711	095638	095616	095655	095675	/	3
M75	095582	093482	095711	095639	095616	095656	095676	/	3
M90	095583	093483	095702	095640	095618	095657	095677	/	4
M100	095584	093484	095713	095641	095619	095658	095678	/	5
NPT 1/2"ss	093352 *	093452 *		095628 *		095645 *	095665 *	1/3	/
NPT 1/2"s	093353 *	093453 *		095628 *		095646 *	095666 *	1/3	/
NPT 1/2"	093354 *	093454 *		095630 *		095647 *	095667 *	1/3	/
NPT 3/4"ss	093367	093467		095628 *		095646 *	095666 *	1/3	/
NPT 3/4"s	093366	093466		095630 *		095647 *	095667 *	1/3	/
NPT 3/4"	093355 *	093455 *		095631 *		095648 *	095668 *	1/3	/
NPT 1"	093356	093456		095632 *		095649 *	095669	/	1
NPT 1"1/4	093357	093457		095633 *		095650 *	095670	/	1
NPT 1"1/2	093368	093468		095633 *		095650 *	095670	/	1
NPT 2"s	093358	093458		095634 *		095651 *	095671	/	1
NPT 2"	093359	093459		095635 *		095652 *	095672	/	1
NPT 2"1/2s	093360	093460		095636 *		095653 *	095673	/	2
NPT 2"1/2	093361	093461		095637 *		095654 *	095674	/	2
NPT 3"s	093362	093462		095638		095655	095675	/	3
NPT 3"	093363	093463		095639		095656	095676	1	3
NPT 3"1/2	093364	093464		095640		095657	095677	/	4
NPT 4	093365	093465		095641		095658	095678	/	5

(1) to be ordered only with cable glands with elastomer seals to convert them to barrier cable glands with sealing compound.

(2) quantity of resin in number of tubes ; to be used per chamber to make a sealed cable entry.

* product supplied in packs of 5 ; other catalogue numbers supplied singly.

Cable gland for armoured cables increased safety



Nickel-plated screw-in cable gland

- For wire, braid or tape armoured cables with earth continuity
- Ingress protection: neoprene gasket, nylon seal (metric thread) and neoprene seal (electrical thread)
- Set of two clamping rings for wire, braid or tape armours

Tightening on the interior sealing sheath only

Metric thread	Inner sealing sheath (N)		Outer sheath (O) Ø max	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
	Ø min	Ø max					
M20 S	6.5	12	16.6	0.6	0.9	0955 02	5

Tightening on the interior and exterior sealing sheath

Ref. 0955 26/27/28/29/30 and 0956 87/88 supplied with a metal locknut

Metric thread	Sealing sheath Interior (N)		Exterior (O)		Weight	Volume	Cat. No.	Pack
	Ø min	Ø max	Ø min	Ø max				
M20 SS	4	8	9	12	0.20	0.3	0955 21	5
M20 S	6.5	12	10.5	16	0.20	0.3	0955 22	5
M20	11	14.3	13	21	0.20	0.3	0955 23	5
M25	13	20	17	27.2	0.25	0.4	0955 24	1
M32	19	26.5	23.5	33.6	0.50	0.6	0955 36	1
M40	25	32.2	33	40.6	0.80	0.6	0955 26	1
M50S	31.5	38.2	39.4	46.7	0.85	1.5	0955 29	1
M50	36.5	44.1	45.7	53.2	0.85	1.6	0955 27	1
M63S	42.5	50.1	52.1	59.5	1.30	1.8	0955 30	1
M63	49.5	56	58.4	65.8	1.30	2	0955 28	1
Electrical thread								
PG13 S	4	8	9	12	0.2	0.3	0956 80	5
PG13	6.5	12	10.5	16	0.2	0.3	0956 81	5
PG16	11	14.3	13	21	0.2	0.3	0956 82	5
PG21	13	20	17	27.2	0.2	0.4	0956 83	1
PG29	19	26.5	23.5	33.6	0.5	0.6	0956 84	1
PG36	25	32.5	33	40.6	0.8	0.9	0956 86	1
PG42	36.5	44.1	45.7	53.2	0.8	0.6	0956 87	1
PG48	42.5	50.1	52.1	59.5	1.5	2	0956 88	1

Accessories

- Clamping kits : nickel-plated brass cap with stainless steel clamps

Metric thread	Electrical thread	Snap on to the cable gland	Weight	Volume	Cat. No.	Pack
M20s/ss	13/13 S	0955 21/22-0956 80/81	0.05	0.1	0955 91	5
M20	16	0955 23-0956 82	0.05	0.2	0955 92	1
M25	21	0955 24-0956 83	0.06	0.2	0955 93	1
M32	29	0955 36-0956 84	0.08	0.4	0955 94	1

- Full kit: Cable gland with weatherproof seal, locknut, earth tag and PVC shroud

Metric thread	Thread Ø min	Clicking onto Ø min	Clicking onto Ø max	Weight	Volume	Cat. No.	Pack
M 20s	6.5	12	10.5 16	0.20	1.6	0955 37	1
M 20	11	14.3	13 21	0.20	1.6	0955 38	1
M 25	13	20.2	17 27.2	0.25	0.4	0955 39	1

- Shrouds, earth tags, lead clamps (see page 256)

Part number in bold : fast moving references

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx e II	IP66/67	IK08		

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-19
 - EC 0081 II 2 G for gas EEx e II
 - EC 0081 II 2 D for dust
- According to IEC
 - Conforming to standards IEC 60079-0/7

Certification :

Cat. no.	Approved type	CENELEC	IEC	EC declaration of conformity
0955 02/21/22 23/24/36 0956 80 à 84	ECMAR 2	02 ATEX 6231X	Ex 02 027X	50249
0955 26 à 30 0956 86 à 88	E1WF	01 ATEX 1271X	/	50267

- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

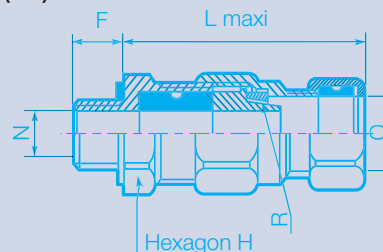
- IP66/67 according to EN 60529 and IEC 60529
- IK08 mechanical resistance according to EN 50102

Operating temperature :

- 40°C to + 80°C for type ECMAR2
- 20°C to + 80°C for type E1WF

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :



Part nos.	Hexagon H		L max	F	Cable armours (R) conforming to standard NF C 32-050 (mm)	
	mm across flats	mm across corners			Wire	Braid
Tape						
0955 02	24	27.7	43 13	0.9 to 1.25	0.2 to 0.4	0.2 to 0.6
0955 21/22	24	27.7	55 15	0.9 to 1.25	0.2 to 0.4	0.2 to 0.6
0955 23	30	34.6	55 15	0.9 to 1.25	0.2 to 0.4	0.2 to 0.6
0955 24	36	41.6	60 15	1.25 to 1.6	0.2 to 0.6	0.2 to 0.6
0955 26	55	61	71 16	1.6 to 2	0.3 to 0.45	0.2 to 0.6
0955 27	65	72	73 16	2 to 2.5	0.3 to 0.45	0.5 to 0.8
0955 28	80	88	74 19	2.5	0.3 to 0.45	0.5 to 0.8
0955 36	46	53.1	65 15	1.6 to 2	0.2 to 0.6	0.2 to 0.6
0956 80/81	24	27.7	55 13	0.9 to 1.25	0.2 to 0.4	0.2 to 0.6
0956 82	30	34.6	55 13	0.9 to 1.25	0.2 to 0.4	0.2 to 0.6
0956 83	36	41.6	60 14	1.25 to 1.6	0.2 to 0.6	0.2 to 0.6
0956 84	46	53.1	65 14.5	1.6 to 2	0.2 to 0.6	0.2 to 0.6
0956 86	55	64	75 16	1.6 to 2	0.3 to 0.45	0.2 to 0.6
0956 87	65	75	75 16	2 to 2.5	0.3 to 0.45	0.5 to 0.8
0956 88	82	93	75 19	2 to 2.5	0.3 to 0.45	0.5 to 0.8

Clamp for lead sheath : The lead sheath clamps in the inspectable/sealed range can be used for this range (see page 256)

Data sheet available on request



Screw-in cable gland

- Nickel-plated brass
- Neoprene weatherproof gaskets
- Supplied with weatherproof seal

Metric thread

	Cable seal (mm)		Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
	Ø min	Ø max				
M20 S	6	11	0.1	0.2	0955 60	5
M20	8	13	0.1	0.2	0955 61	5
M25	10	15	0.1	0.2	0955 62	5
M25	13	19	0.1	0.2	0955 63	5
M32	16	25	0.2	0.2	0955 64	1
M40	22	30	0.4	0.4	0955 65	1
M50	28	40	0.7	0.9	0955 66	1

Electrical thread

PG	Cable seal (mm)		Weight (Kg)	Volume (dm ³)	Cat. Nos	Pack
	Ø min	Ø max				
11	6	11	0.1	0.2	0955 40	5
13 S	6	11	0.1	0.2	0955 41	5
13	8	13	0.1	0.2	0955 42	5
16	10	15	0.1	0.2	0955 43	5
21	13	19	0.1	0.2	0955 44	1
29	16	25	0.2	0.2	0955 45	1
36	22	30	0.4	0.4	0955 46	1
48	28	40	0.9	0.9	0955 47	1

Accessories

Stainless steel cable clamps

Snap-on and adjustable on the cable gland

Metric thread	Electrical thread	Ø Fastening		Snap on to the cable gland	Weight	Volume	Cat. No.	Pack
		min	max					
M20	11/13 S	6	11	955 40/41/60	0.02	0.2	0956 90	5
M20	13	8	13	955 42/61	0.02	0.2	0956 92	5
M25	16	10	15	955 43/62	0.03	0.2	0956 93	5
M25	21	13	19	955 44/63	0.05	0.2	0956 94	1
M32	29	16	25	955 45/64	0.06	0.2	0956 95	1
M 40	36	22	30	955 46/65	0.08	0.4	0956 96	1
M50	48	28	40	955 47/66	0.10	0.4	0956 97	1

- Locknuts (see page 259)
- Stainless steel enclosures (see page 144)

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx e II	IP66/67	IK08		

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC
- Conforming to ATEX directive 94/9 EC and standards EN 50014-19
- EC 0081 II 2 G for gas EEx e II
- EC 0081 II 2 D for dust
- According to IEC
- Conforming to standards IEC 60079-0/7 Ex e II
- DIPA 21 for dust

Certification :

- Approved type ECX2
- CENELEC LCIE 02 ATEX 6118X
- IEC LCIE Ex 02 027 X
- declaration of conformity No. 50249
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

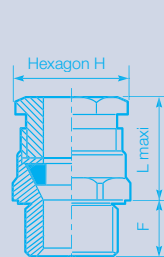
- IP66/67 according to EN 60529 and IEC 60529
- IK08 mechanical resistance according to EN 50102

Operating temperature :

- 40°C to + 80°C

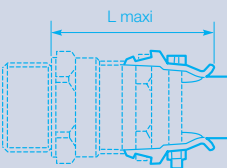
Dimensions (mm) :

Cable gland



Cat. no.	Hexagon H		L max	F
	mm across flats	mm across corners		
0955 40	22	24.5	21	13
0955 41/60	22	24.5	21	13
0955 42/61	24	26.5	21	13
0955 43/62	27	30	26	13
0955 44/63	32	35	27	14
0955 45/64	41	45	35	14.5
0955 46/65	54	60	39	14.5
0955 47/66	65	71	42	17

Cable clamp



Part nos.	L mm
0956 90	36
0956 92	36
0956 93	49
0956 94	50
0956 95	59
0956 96	66
0956 97	75



0956 06



0957 18

Polyamide cable glands

- For non-armoured cable or armoured cables without earth continuity
- Polyamide bodies and clamping rings (2 clamping rings supplied with each cable gland to cover the whole clamping range)
- Supplied with weatherproof seal and neoprene weatherproof gaskets

Metric thread

Metric thread	Cable seal		Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
	Ø min	Ø max				
M16	3	8.5	0.1	0.9	0957 56	10
M20	6.5	14.5	0.2	0.9	0956 05	10
M25	8	18.5	0.2	0.9	0956 06	10
M32	10	25	0.2	0.9	0957 57	10
M40	24	34	0.4	1.2	0957 58	1
M50	28	42	0.5	1.2	0957 59	1

Electrical thread

Electrical thread	Cable seal		Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
	Ø min	Ø max				
PG 11	6.5	10.5	0.1	0.9	0956 00	10
PG 13	8	12.5	0.2	0.9	0956 01	10
PG 16	10	14	0.2	0.9	0956 02	10
PG 21	12.5	18.5	0.2	0.9	0956 03	10
PG 29	18	25	0.9	3.8	0956 04	10

Accessories

Nickel-plated brass locknuts

Metric thread	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
M16	0.04	0.08	0957 07	10
M20	0.07	0.1	0957 01	10
M25	0.1	0.2	0957 02	10
M32	0.2	0.2	0957 03	10
M40	0.2	0.2	0957 08	5
M50	0.5	0.2	0957 09	5
M63	0.5	0.2	0957 10	5
M75	0.1	0.2	0957 11	1
M90	0.15	0.2	0957 12	1
M100	0.15	0.2	0957 13	1

Electrical thread	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
PG 11	0.03	0.08	0957 17	10
PG 13	0.04	0.08	0957 18	10
PG 16	0.1	0.08	0957 19	10
PG 21	0.1	0.4	0957 20	10
PG 29	0.2	0.4	0957 21	10
PG 36	0.3	0.4	0957 22	5
PG 48	0.3	0.4	0957 23	5

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx e II	IP68	IK08		

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC
 - Conforming to ATEX directive 94/9 EC and standards EN 50014-19
 - EC 0081 II 2 G for gas EEx e II
 - EC 0081 II 2 D for dust
- According to IEC
 - Conforms to standards IEC 60079-0/7 Ex e II
 - DIPA 21 for dust

Certification :

- Approved type EExE
- CENELEC LCIE 99 ATEX 6030 X
- IEC LCIE Ex 03...
- declaration of conformity No. 50233
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

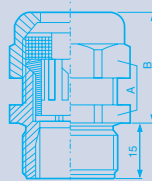
- IP68 according to IEC 60529 and EN 60529
- IK08 mechanical resistance according to EN 50102

Operating temperature :

- 20°C to + 55°C

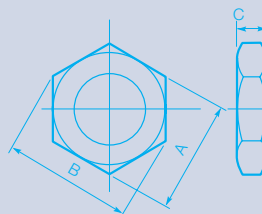
Dimensions (mm) :

Cable gland



Cat. no.	A	B
0956 00	22	24
0956 01	24	26
0956 02	27	27
0956 03	33	32
0956 04	42	37
0956 05	27	30
0956 06	33	33
0957 56	19	24
0957 57	42	43
0957 58	55	47
0957 59	65	49

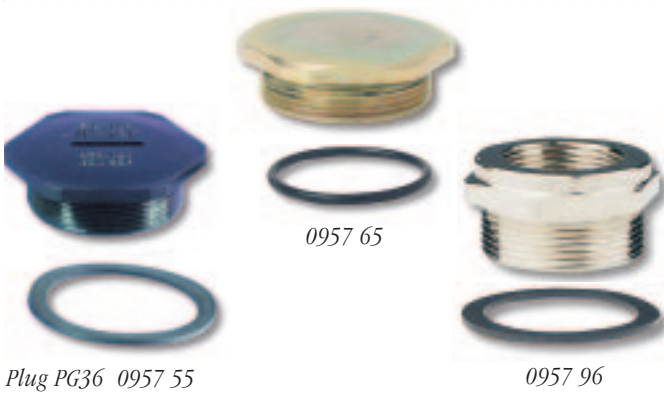
Locknut



Cat. no.	A	B	C
0957 01	24	26.5	3.5
0957 02	33	36.5	3.5
0957 03	42	46.2	4.5
0957 07	19	21	3
0957 08	55	60	4.5
0957 09	65	70.1	5.5
0957 17	22	24.5	3.5
0957 10	70	77	6
0957 11	85	93.5	8
0957 12	100	110	10
0957 13	110	121	12
0957 18	24	26.5	3.5
0957 19	27	30	3.5
0957 20	32	35	4
0957 21	46	53	4
0957 22	55	63	4
0957 23	70	80.5	6

Data sheet available on request

Part number in bold : fast moving references



Plastic or nickel-plated brass plugs

- Supplied with weatherproof seal
- Thread conforming to standard NF C 68-311/312

Catalogue numbers

Metric thread	Weight (Kg)	Volume (dm ³)	Cat. No. Plastic	Cat. No. Brass	Pack
M16	0.1	0.03	0954 85	–	10
M20	0.1	0.03	0957 14	0957 28	10
M25	0.1	0.03	0957 15	0957 29	10
M32	0.1	0.03	0954 86	–	1
M40	0.1	0.07	0954 87	–	1
M50	0.2	0.07	0954 88	–	1

Electrical thread	Weight (Kg)		Volume (dm ³)		Cat. No. Plastic	Pack	Cat.No. Nickel plated brass	Pack
	Plastic	Brass	Plastic	Brass				
PG 11	0.1	0.01	0.03	0.05	0957 50	10	0957 60	1
PG 13	0.1	0.01	0.03	0.05	0957 51	10	0957 61	1
PG 16	0.1	0.01	0.03	0.05	0957 52	10	0957 62	1
PG 21	0.1	0.02	0.03	0.07	0957 53	1	0957 63	1
PG 29	0.1	0.03	0.07	0.07	0957 54	1	0957 64	1
PG 36	0.2	0.06	0.07	0.2	0957 55	1	0957 65	1

Nickel-plated brass male/female reducers

- Supplied with weatherproof seal
- Metric thread/thread conforming with standard ISO 965 I/III
- May be fitted to enclosures "e" ou "d" enclosures

Catalogue numbers

Male thread	Female thread	Weight (Kg)	Volume (dm ³)	Cat. Nos	Pack
M20	M16	0.06	0.05	0954 61	1
M25	M16	0.07	0.1	0954 62	1
M25	M20	0.05	0.1	0957 96	1
M32	M20	0.1	0.1	0954 63	1
M32	M25	0.1	0.1	0954 64	1
M40	M25	0.2	0.2	0954 65	1
M40	M32	0.2	0.2	0954 66	1
M50	M32	0.3	0.2	0954 67	1
M50	M40	0.3	0.2	0954 68	1

- Cable gland for armoured cable EEx "e" and EEx "d" (see page 252)
- Stainless steel enclosures (see page 144)



Part number in bold : fast moving references

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx e II and EEx d (reducers)		IP66		

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC
- Conforming to ATEX directive 94/9 EC and standards EN 50014-18-19
- EC 0081 II 2 G for gas
- EC 0081 II 2 D for dust
- According to IEC
- Conforming to standards IEC 60079-0/1/7
- DIPA 21 for dust

Certification :

- Conforming to standards EN50281-1-1 and IEC 61241-1-1 "combustible dust"

Cat. no.	Certified Type	Symbol CENELEC	IEC	Certificate no.		EC declaration of conformity
				CENELEC	IEC	
0957 14/15/51/52/53						
0957 60/61/62/63/64/65 0954 85/86/87/88	BVe	EEx e II	Ex e II	03 ATEX0011U	Ex 03.005U	5C218
0957 28/29 /50/54/55	EEx e	EEx e II		02 ATEX 0038U		
0957 96	ACC	EEx d IIC	Exd IIC	03 ATEX0020U	Ex03.022U	5C217
0954 61/62/63/64/65 66/67/68	A,AD,B,R	EEx d IIC		98 ATEX 0001U		5C...
		EEx e II				

Protection index :

- IP66 according to EN 60529 and IEC 60529

Operating temperature :

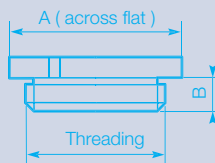
- 40°C to + 55 °C

Dimensions (mm) :

- Blanking plugs

Thread	Plastic		Brass	
	A	B	A	B
11	22	10	20	10
13	24	12	22	10
16	27	12	24	10
21	32	12	30	12
29	41	12	40	12
36	55	14	50	14

M 16		–	–
M 20	24	12	22
M 25	27	12	24
M 32	34	12	–
M 40	42	12	–
M 50		–	–



– Reducers

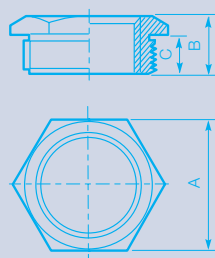
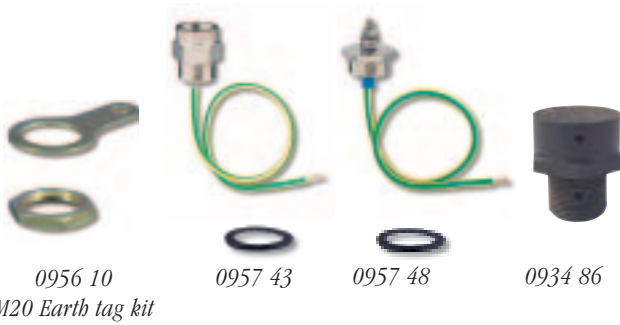


Fig. 1

Cat. No	A	B	C
0954 61	23	18	15
0954 62	28	18	15
0957 96	28	18	15
0954 63	36	18,5	15
0954 64	36	18,5	15
0954 65	44	19	15
0954 66	44	19	15
0954 67	54	21	16
0954 68	54	21	16

Earth continuity devices and adaptors, bleed valve/breather

increased safety and flameproof



Brass earth tag and locknut kit

- Function: ensures earth continuity between cable armour entering boxes, supplied with a locknut

Metric thread	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
M16	0.02	0.3	0956 09	5
M20	0.02	0.3	0956 10	5
M25	0.03	0.3	0956 11	5
M32	0.05	0.3	0956 12	5
M40	0.05	1.5	0956 13	5
M50	0.1	1.5	0956 14	5
M63	0.1	1.5	0956 15	5
M75	0.2	1.5	0956 16	1
M90	0.2	1.5	0956 18	1
M100	0.2	1.5	0956 19	1

Earth continuity adaptors

- Function: for installation of earth continuity cable glands and connection of earths inside the increased safety "e" polyester boxes
- Nickel-plated brass
- Green/yellow earth conductor, length 300 mm
- Supplied with weatherproof seal

Male thread	Female thread	Cable section (mm ²)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
M20	M20	2.5	0.05	0.09	0957 43	1
M25	M25	4	0.1	0.1	0957 44	1

Feedthrough earth stud terminals

- Function : ensures earth continuity with external connections
- Supplied with weatherproof seal
- Green/yellow earth conductor, length 300 mm

Male thread	Conductor (mm ²)	Ø earth terminal	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
M20	2.5	M5	0.2	1.3	0957 48	1
M25	6	M6	0.3	2.6	0957 49	1

Bleed valve and breather

- Function : ensures that condensation is evacuated from the lower section of the enclosures and limits the "pumping" effect in the upper section.
- To be used only with "e" enclosure.

Male thread	Material	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
M20	Polyamide	0.1	0.6	0934 86	1
M20	Brass	0.2	0.6	0934 87	1
M20	Stainless steel	0.2	0.6	0934 88	1

- **Stainless steel enclosures and boxes** (see page 144)

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx e II / EEx d II C		IP66		

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC
- Conforming to ATEX directive 94/9 EC and standards EN 50014-18-19
- EC 0081 II 2 G for gas
- EC 0081 II 2 D for dust
- According to IEC
- Conforming to standards IEC 60079-0/1/7
- DIPA 21 for dust

Certification :

- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Références	Type Certifié	Symbole		N° certificats		Déclaration CE de conformité
		CENELEC	CEI	CENELEC	CEI	
0957 48/49	BVe	EExell	Exell	03 ATEX0011U	Ex 03.005U	5C218
0957 43/44	ACC	EExdII C	ExdII C	03 ATEX0020U	EX03.022U	5C217
0934 86/87/88	DP-E	EExell	/	99 ATEX3050U	/	5C225

Protection index :

- IP66 according to EN 60529 and IEC 60529

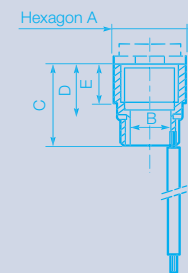
Operating temperature :

- 40°C to + 55°C (0957 43/44/48/49)
- 50°C to + 85°C (0934 86/87/88)

Anticorrosion treatment and climate protection : see page G50

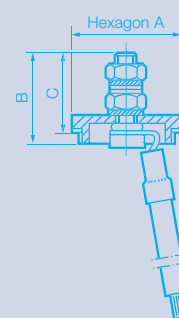
Dimensions (mm) :

Adaptors



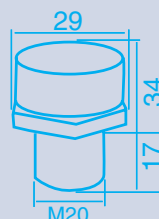
Cat. No.	A	B	C	D	E
0957 43	26	13	32	20	15
0957 44	32	17	32	20	15

Feedthrough earth stud terminals



Cat. No.	A	B	C	D
0957 48	27	28	19	9
0957 49	32	34	23	11

Bleed valve and breather





Nickel-plated brass screw-in cable gland

- For cables armoured with wire, braid or tape with earth continuity
- Ingress protection: neoprene gasket and nylon seal (metric thread)
- Set of two clamping rings for wire, braid or tape armours

Tightening on the interior sealing sheath only

Metric thread Ø min	Interior sheath (N)		Outer sheath (O) (Kg)	Weight (dm ³)	Volume	Cat. No. Pack	
	Ø max	Ø max				Boxes IIB all volumes and IIC ≤2000 cm ³	
M20 s	6.5	12	16.6	0.6	0.9	0955 02	5
Metric IIC boxes all volumes							
M20 s	6.5	12	16.6	1	1.3	0955 12	5
M20	11	14.3	21	1	1.3	0955 13	5
Tapered (NPT)							
3/4"	6.5	12	16.6	1.2	1.3	0933 72	5
3/4"	11	14.3	21	1.2	1.3	0933 73	5

Tightening on the interior and exterior sealing sheath

- 0955 26/27/28/29/30 and 0956 87/88 supplied with a metal locknut

Metric	Thread Ø min	Inner sheath (N)		Outer sheath (O)		Weight	Volume	IIB boxes all volumes and IIC ≤2000 cm ³	
		Ø min	Ø max	Ø min	Ø max				
M20 ss	4	8	9	12	0.7	1.3	0955 21	5	
M20 s	6.5	12	10.5	16	0.70	1.6	0955 22	5	
M20	11	14.3	13	21	0.91	1.6	0955 23	5	
M25	13	20	17	27.2	0.25	0.4	0955 24	1	
M32	19	26.5	23.5	33.6	0.43	0.6	0955 36	1	
M40	25	32.2	33	40.6	0.80	0.6	0955 26	1	
M50s	31.5	38.2	39.4	46.7	0.85	1.5	0955 29	1	
M50	36.5	44.1	45.7	53.2	0.85	1.6	0955 27	1	
M63s	42.5	50.1	52.1	59.5	1.30	1.8	0955 30	1	
M 63	49.5	56	58.4	65.8	1.30	2	0955 28	1	
Tapered (NPT)									
1/2"	6.5	12	10.5	16	0.2	0.4	0933 81	5	
3/4"	6.5	12	10.5	16	0.2	0.4	0933 82	5	
3/4"	11	14.3	13	21	0.3	0.4	0933 83	5	
1"	13	20	17	27.2	0.3	0.4	0933 84	1	
Metric IIC boxes all volumes									
M20 s	6.5	12	10.5	16	0.2	0.4	0955 32	5	
M20	11	14.3	13	21	0.3	0.4	0955 33	5	
M25	13	20	17	27.2	0.3	0.4	0955 34	1	
M32	19	26.5	23.5	33.6	0.3	0.6	0955 35	1	
Tapered (NPT)									
3/4"	6.5	12	10.5	16	0.4	0.3	0933 92	5	
3/4"	11	14.3	13	21	0.4	0.3	0933 93	5	
1"	13	20	17	27.2	0.4	0.4	0933 94	1	
1" 1/4	19	26.5	23.5	33.6	0.6	1.6	0933 95	1	

Accessories and complete kits

- Clamping kit ; Cat. no. 0955 91 to 94 (see page 257)

Part number in bold : fast moving references

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx d IIB or IIC	IP66/67	IK 08		

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Classification :

- According to CENELEC
- Conforming to ATEX directive 94/9 EC and standards EN 50014-18
- EC 0081 II 2 G for gas EEx d IIB or IIC
- EC 0081 II 2 D for dust
- According to IEC
- Conforming to standards IEC 60079-0/1 Ex e IIB or IIC
- DIPA 21 for dust

Certification :

Cat. no.	Approved type	CENELEC	IEC	EC declaration of conformity
0955 12/13 0955 32 to 35 0933 72/73 0933 92 to 95	ECMA 2	02 ATEX 6231X	Ex 02 027X	50249
0955 02/21 22/23/24/36 3738/39 0933 81/82 83/84	ECMAR2	02 ATEX 6231X	Ex 02 027X	50249
0955 26 to 30	E1WF	01 ATEX 1271X	/	/

- Conforming to standards EN 50281-1-1 and IEC 61241-1-1

"combustible dust"

Protection index :

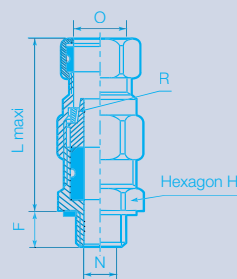
- IP66/67 according to EN 60529 and IEC 60529
- IK08 mechanical resistance according to EN 50102

Operating temperature :

- 40°C to + 80°C for type ECMAR2 and ECMA2
- 20°C to + 80°C for type E1WF

Dimensions (mm) :

Cat. no.	Hexagon H			
	mm across flats	mm across corners	L L	F F
0955 02	24	27,7	43	13
0933 72	30	31,9	46	18
0933 73	32	34,7	48	18
0955 12	30	31,9	46	15
0955 13	32	34,7	48	15
0955 21/22	24	27,7	55	15
0955 23	30	34,6	55	15
0955 24	36	41,6	60	15
0955 36	50	54,2	70	15
0955 26	55	64	75	16
0955 27	65	75	75	16
0955 28	80	93	75	19
0933 81	24	27,7	55	18
0933 82	24	27,7	55	18
0933 83	30	34,6	55	18
0933 84	36	41,6	60	23
0955 32	30	31,9	63	15
0955 33	32	34,7	68	15
0955 34	42	46,7	68	15
0955 35	50	54,2	70	15
0933 92	30	31,9	63	18
0933 93	32	34,7	68	18
0933 94	42	46,7	68	23
0933 95	50	54,2	70	23



Metric	Tapered (NPT)	Cable armours (R) conforming to standard NF C 332-050		
		Wire	Braid	Tape
20 s - 20	1/2"-3/4"	0.9 to 1.25	0.2 to 0.4	0.2 to 0.6
25	1"	1.25 to 1.6	0.2 to 0.6	0.2 to 0.6
32	1" 1/4	1.6 to 2	0.2 to 0.6	0.2 to 0.6

Clamp for lead sheath : The lead sheath clamps in the inspectable/sealed range can be used for this range (see page 256)

Cable gland for non-armoured cables (integrated clamping)

flameproof



1" NPT cable gland
0934 02



Cone shaped separator
0954 60

Aluminium alloy clamp-on cable gland

- Clamped via 2 half flanges
- Supplied with 1, 2 or 3 neoprene weatherproof gaskets according to Ø cable and with weatherproof seal for metric threads

Tapered thread (NPT)	Ø sealing sheath		Ø max fastening	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
	min	max					
1/2"	2	9	22	0.1	1.6	0934 21	5
1/2"	5	15	22	0.1	1.6	0934 22	5
3/4"	2	12	22	0.2	1.6	0934 00	5
3/4"	12	17	22	0.2	1.6	0934 01	5
1"	17	24	33	0.4	1.6	0934 02	1
1" 1/4	24	28	40	0.6	1.6	0934 03	1
1" 1/2	28	35	47	0.9	2	0934 04	1
2"	34	46	62	1.4	3.8	0934 05	1
3"	46	59	70	1.5	13	0934 08	1

Metric thread	Ø sealing sheath		Ø max fastening	Weight	Volume	Cat. No.	Pack
	min	max					
M20 S	2	9	22	0.1	0.9	0934 85	1
M20	5	15	22	0.1	0.9	0934 09	1
M25	2	12	22	0.1	0.9	0934 10	1
M25	12	17	22	0.1	0.8	0934 11	1
M32	17	24	33	0.4	1.6	0934 90	1
M40	24	28	40	0.6	1.6	0934 91	1
M50	28	35	47	0.9	2	0934 92	1
M63	34	46	62	1.4	3.8	0934 93	1
M75	46	59	70	1.5	13	0934 94	1

Accessories

Cone shaped separator for flexible cable (aluminium alloy)

	Weight	Volume	Cat. No.	Pack
Adjustable to the cable gland 1/2", 3/4" and M20/M25	0.1	0.4	0954 60	5

Zones 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx d IIC	IP66/67	IK08		

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification :

- According to CENELEC
- Conforming to ATEX directive 94/9 EC and standards 50014-18
- EC 0081 II 2 G for gas EEx d IIC
- EC 0081 II 2 D for dust
- According to IEC
- Conforming to standards IEC 60079-0/1 Ex d IIC
- DIPA 21 for dust

Certification :

- Approved type EC1d to EC6d
- CENELEC LCIE 02 ATEX 6230X
- IEC LCIE Ex 02.025X
- declaration of conformity 50250
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

- IP66/67 according to EN 60529 and IEC 60529
- IK08 mechanical resistance according to EN 50102

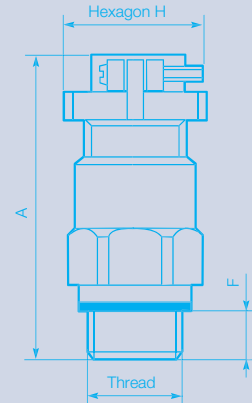
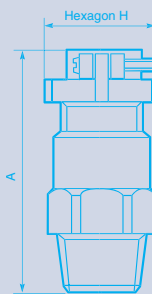
Operating temperature :

- 40°C to + 80°C
- except for catalogue numbers 093421 and 093485 (- 20°C to + 80°C)

Dimensions (mm) :

0934 00/01/02/03/04/05/08/21/22

0934 85 à 934 94 et 934 09/10/11



Cat. no.	Type	A	Hexagon H across flats/across corners		F
0934 00/01/21/22	EC1	73	36	41,4	
0934 09/10/11/85	EC1/M	73	36	41,4	
0934 02/12	EC2	94	52	59,8	
0934 03/13	EC3	115	65	74,7	
0934 04/14	EC3	135	80	92	
0934 05/15	EC4	150	101	116,1	
0934 08	EC6	200	119	136,8	
0934 90	EC2	90	52	59,8	15
0934 91	EC3	110	65	74,7	15
0934 92	EC3	130	80	92	15
0934 93	EC4	145	101	116,1	16
0934 94	EC6	200	119	136,8	17

Notice technique sur demande



1/2" Plug 0954 80

3/4" Adaptor
0954 71

Bleed valve 0934 98

Aluminium and zinc-plated steel plugs

NPT tapered thread

Tapered thread (NPT)	Weight (Kg)	Volume (dm ³)	Cat. No. Aluminium units, all volumes	Pack
1/2"	0.02	0.2	0954 80	10
3/4"	0.04	0.2	0954 81	10
1"	0.1	0.2	0954 82	1
Zinc-plated steel				
1" 1/4	0.2	0.4	0954 83	1
1" 1/2	0.2	0.4	0954 84	1

Metric thread

Metric thread	Weight (Kg)	Volume (dm ³)	Cat. No. Aluminium	Pack
M20 x 1.5	0.1	0.2	0954 90	1
M25 x 1.5	0.1	0.2	0954 91	1
M32 x 1.5	0.1	0.2	0954 92	1
Zinc-plated steel				
M40 x 1.5	0.2	0.3	0954 93	1
M50 x 1.5	0.2	0.3	0954 89	1

Nickel-plated brass adaptors

Metric/tapered

Metric male thread	Tapered female thread (NPT)	Weight (Kg)	Volume (dm ³)	Nickel-plated brass all volumes	Pack
M20	1/2"	0.05	0.1	0954 96	5
M20	3/4"	0.1	0.1	0954 97	5
M25	3/4"	0.1	0.1	0954 75	5
M32	1"	0.2	0.2	0954 98	1
Tapered male thread (NPT)	Metric female thread	Weight (Kg)	Volume (dm ³)	Nickel-plated brass all volumes	Pack
1/2"	M20	0.1	0.1	0954 94	1
3/4"	M20	0.1	0.1	0954 71	5
3/4"	M25	0.1	0.1	0954 95	1

NPT tapered thread male/female reducers

Male thread (NPT)	Female thread (NPT)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
3/4"	1/2	0.1	0.1	0954 50	1
1"	3/4	0.1	0.1	0954 51	1
1" 1/4	3/4	0.3	0.2	0954 52	1
1" 1/4	1	0.3	0.2	0954 53	1
1" 1/2	1	0.3	0.2	0954 54	1
1" 1/2	1 1/4	0.3	0.2	0954 55	1

Nickel-plated brass bleed valve

- Function: to drain condensation inside the boxes

Metric thread	Weight (Kg)	Volume (dm ³)	Cat. No. all volumes	Pack
M20	1.1	0.9	0934 98	5

Metric thread reducers (see page 260)

Zone 1 & 2 - 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx d IIC	IP 66			

TECHNICAL DATA

Zones : 1 and 2 and 21 - 22

Classification :

- According to CENELEC
 - Conforming to ATEX Directive 94/9 EC and standards 50014-18
 - EC 0081 II 2 G for gas EEx d IIC
 - EC 0081 II 2 D for dust
- According to IEC
 - Conforming to standards IEC 60079-0/1 Exd IIC
 - DIPA 21 for dust

Certification :

- Approved type ACC
- CENELEC LCIE 03 ATEX0020U
- IEC LCIE Ex 03.022U
- declaration of conformity 5C217
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index : IP66 according to EN 60529 and IEC 60529

Operating temperature : - 40°C to + 55°C

Operating temperature :

CENELEC standards EN 50014/18 and to publications IEC I79.0/1

Threading and thread conforming to standards

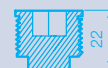
NPT	NF E 03-601
Metric	ISO No. 965 I/III

Dimensions (mm) :

Adaptors/reducers

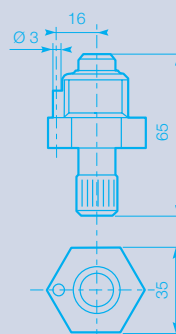
- Metric thread (see page 260)

- NPT tapered thread

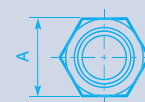
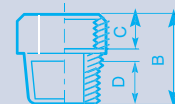


Cat. No.	A	B	C	D
0954 50	27	32	15	15
0954 51	35	35	18	22
0954 52	42	35	18	22
0954 53	42	35	23	22
0954 54	50	35	23	22
0954 55	50	47	22	22
0954 71	27	27	27	15
0954 75	32	35	18	13
0954 94	27	36	15	15
0954 95	32	38	15	15
0954 96	24	32	15	15
0954 97	30	32,5	15	15
0954 98	38	37,5	20	15

Bleed valve



Plugs





1/2"
male/female
union
500142

3/4"
male/male
union
500144

3/4"
Fire retardant
union
500147

Female/female
"elbow"

Nickel-plated brass unions

- To be used with multi-conductor cables only

Male/female

Tapered thread (NPT)	Tapping NPT	Ø sealing sheath min	Ø sealing sheath max	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
1/2"	1/2"	9	12	0.3	0.2	500142	1
3/4"	3/4"	9	12	0.5	0.4	500143	1

Unions for coupling 2 flameproof enclosures

- To be used with multi-conductor cables only

Male/Male

Tapered tapping (NPT)	Ø sealing sheath min	Ø sealing sheath max	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
3/4"	9	12	0.4	0.4	500144	1
3/4"	11	14	0.4	0.4	500145	1

Aluminium fire-retardant unions

Female/female

Tapered tapping (NPT)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
1/2"	0.13	2.3	500146	1
3/4"	0.19	3.2	500147	1
1"	0.32	3.2	500148	1
1"1/4	0.6	3.2	500149	1
1"1/2	0.6	4	500150	1
2"	0.65	7.6	500151	1
2"1/2	1.26	7.6	500152	1
3"	1.33	7.6	500153	1

Fire retardant resin

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
1 Kg pot + 250 g of catalyst	1.5	3.2	500154	1
Fire retardant fibre (1 kg sachet)	1.5	8	500155	1

Aluminium "elbows"

Female/female

Tapered thread (NPT)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
1/2"	0.125	0.12	500054	1
3/4"	0.1	0.12	500055	1
1"	0.2	0.23	500056	1
1"1/4	0.4	0.5	500057	1
1" 1/2	0.6	0.5	500058	1
3"	1.5	2	500059	1

Zones 1 & 2	ATEX	EC	II 2 G/D	EEx d IIC
-------------	------	----	----------	-----------

TECHNICAL DATA

Zones : 1 and 2

Classification :

- According to CENELEC
- Conforming to ATEX directive 94/9 EC and standards 50014-18
- Zinc-plated steel unions
- EC 0163 II 2 G for gas EEx d IIC
- Aluminium fire retardant unions
- EC 0722 II 2 G for gas EEx d IIC
- Aluminium elbows
- 0722 II 2 G for gas EEx d IIC

Certification :

	Approved type	CENELEC
Zinc-plated steel unions	160	LOM 02 ATEX 2015X
Fire retardant unions	EYS	CESI 03 ATEX 085
Elbows	ELF	CESI 01 ATEX 104U

Operating temperatures :

- 20°C to + 40°C for unions
- 40°C to + 60°C for elbows

Dimensions (mm) :

	Cat. No.	Dimensions			
		A	B	B1	R
Fire retardant unions	500146	77	57	43	
	500147	87	67	50	
	500148	105	83	62	
	500149	130	84	56	
	500150	130	84	56	
	500151	140	95	63	
	500152	175	113	74	
500153	190	135	92		

A: total height
B: overall lateral dimensions
R: lateral dimensions in relation to the vertical axis

Elbows

	Cat. No.	Dimensions		
		A	H	R
A: overall dimensions of the elbow H: distance between the horizontal output axis and the base plane on a horizontal surface R: curvature radius	500054	73	56	30
	500055	73	56	30
	500056	92	70	35
	500057	115	85	50
	500058	115	85	50
	500059	185	131	85

Data sheet available on request



500073

Flexible unions

Male/Male

- Must be used with fire-retardant unions or unions for pipes (see page 267)

Tapered thread (NPT)	Length (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
1/2"	100	0.65	1	500060	1
1/2"	170	0.7	1,75	500061	1
1/2"	250	0.7	2,5	500106	1
1/2"	300	0.75	3	500062	1
1/2"	400	0.8	4	500063	1
1/2"	500	0.85	5	500064	1
1/2"	600	0.9	6	500065	1
1/2"	700	0.95	7	500066	1
1/2"	800	1	8	500067	1
1/2"	900	1.05	9	500068	1
1/2"	1000	1.1	10	500069	1
3/4"	300	0.75	3	500070	1
3/4"	400	0.8	1	500071	1
3/4"	500	0.85	5	500072	1
3/4"	600	0.9	6	500073	1
3/4"	700	0.95	7	500074	1
3/4"	800	1	8	500075	1
3/4"	900	1.05	9	500076	1
3/4"	1000	1.1	10	500077	1
1"	300	0.75	3	500078	1
1"	400	0.8	1	500079	1
1"	500	0.85	5	500080	1
1"	600	0.9	6	500081	1
1"	700	0.95	7	500082	1
1"	800	1	8	500083	1
1"	900	1.05	9	500084	1
1"	1000	1.1	3	500085	1
1"1/4	300	0.75	3	500086	1
1"1/4	400	0.8	3	500087	1
1"1/4	500	0.85	5	500088	1
1"1/4	600	0.9	6	500089	1
1"1/4	700	0.95	7	500090	1
1"1/4	800	1	8	500091	1
1"1/4	900	1.05	9	500092	1
1"1/4	1000	1.1	10	500093	1
1"1/2	300	0.75	3	500094	1
1"1/2	400	0.8	1	500095	1
1"1/2	500	0.85	5	500096	1
1"1/2	600	0.9	6	500097	1
1"1/2	700	0.95	7	500098	1

Part number in bold : fast moving references

Zone 1 et 2

ATEX

II 2 G

EEx d IIC

TECHNICAL DATA

Zones :

- 1 and 2

Classification:

- According to CENELEC
- Conforming to the ATEX directive
- Conforming to standards EN 50014-18
- 0722 II 2 G, EEx d IIC for gas

Certification :

- Approved type SPH
- CENELEC CESI 00 ATEX 048 U
- Declaration of conformity 5C226 for components

Operating temperature :

- 20°C to + 40°C



500044



500049

Zinc-plated steel unions

- 3-part flameproof union
- Only to be used with a fire break connector (see page 265) fitted directly at the entry to the flameproof housing
- Enables connection via rigid or flexible union (see page 266)

Male/female

Tapered thread (NPT)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
1/2"	0.17	0.12	500044	1
3/4"	0.19	0.12	500045	1
1"	0.3	0.23	500046	1
1" 1/4	0.8	0.5	500047	1
1" 1/2	1	0.5	500048	1

Female/female

Tapered thread (NPT)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
1/2"	0.15	0.12	500049	1
3/4"	0.15	0.12	500050	1
1"	0.23	0.23	500051	1
1" 1/4	0.7	0.5	500052	1
1" 1/2	0.37	0.5	500053	1
3"	0.9	2	500158	1

Zones 1 & 2
ATEX
II 2 G
EEx II B

TECHNICAL DATA

Zones :

- 1 and 2

Classification:

- According to CENELEC
- Conforming to ATEX Directive 94/9/EC and standards EN 50014-18 0722 II 2 G for gas EEx d IIB

Certification :

- Approved type: BMF male/female union
BFF male/female union
- CENELEC CESI 99 ATEX 034U

Operating temperature :

- 20°C to + 40°C

Dimensions (mm) :

Male/female unions

	Cat. No.	Dimensions		
		L	E	AC
L = overall length	500044	59	37	32
E = locknut angle measurement	500045	59	40	35
AC = measurement across flat for tightening	500046	72	48	42
	500047	87	61	56
	500048	87	75	70

Female/female unions

	Cat. No.	Dimensions		
		L	E	AC
L = overall length	500049	46	37	32
E = locknut angle measurement	500050	46	40	35
AC = measurement across flat for tightening	500051	56	48	42
	500052	62	61	56
	500053	62	75	70

Polyamide cable gland for non-armoured or armoured cable glands without earth continuity *intrinsic security*



Cable gland M20

ISO 965 I/III Metric thread

- For non-armoured cables or armoured cables without earth continuity
- Blue polyamide body Ral 5012
- Neoprene weatherproof gaskets
- Supplied with weatherproof seal

Catalogue numbers

Metric thread	Cable seal		Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
	Ø min	Ø max				
M16	2.5	8	0.1	0.9	0958 00	10
M20	5	12	0.2	0.9	0958 01	10
M25	7	14	0.2	0.9	0958 02	10
M32	14	25	0.2	0.9	0958 03	10
M40	18	32	0.4	0.9	0958 04	1
M50	24	38.5	0.5	0.9	0958 05	1

Accessories

Brass nickel-plated locknuts

Metric thread	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
M 16	0.07	0.1	0957 07	10
M 20	0.07	0.1	0957 01	10
M 25	0.1	0.2	0957 02	10
M 32	0.2	0.2	0957 03	10
M 40	0.3	0.2	0957 08	5
M 50	0.35	0.3	0957 09	5

- Stainless steel enclosures (see page 153)

Zones 1 & 2 and 21 & 22	ATEX	IEC	EC	II 2 G/D
EEx e II	IP 68	IK 08		

TECHNICAL DATA

Zones :

- 1 and 2 and 21 - 22

Classification:

- According to CENELEC
 - Conforming to ATEX directive 94/9 EC and standards EN 50014-19-20
 - EC 0081 (EEx) II 2 G for gas EEx e II
 - EC 0081 (EEx) II 2 D for dust
- According to IEC
 - Conforming to standards IEC 60079-0/7 Ex e II
 - DIPA 21 for dust

Certification :

- Approved type EExE
- CENELEC LCIE 99 ATEX 6030 X
- IEC LCIE Ex 03 (current)
- **CE** declaration of conformity 50233

Protection index :

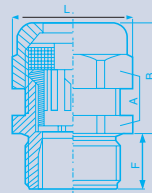
- IP68 according to IEC 60529 and EN 60529
- IK08 mechanical resistance according to EN 50102

Operating temperature :

- 20°C to + 55°C

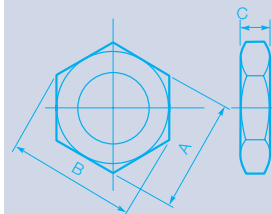
Dimensions (mm) :

- Cable gland



Cat. no.	A	B	L	F
0958 00	19	27	21.9	15
0958 01	24	30	27.8	15
0958 02	27	35	31.2	15
0958 03	42	42	48.5	15
0958 04	53	52	61.2	16
0958 05	60	55	69.3	16

- Locknut

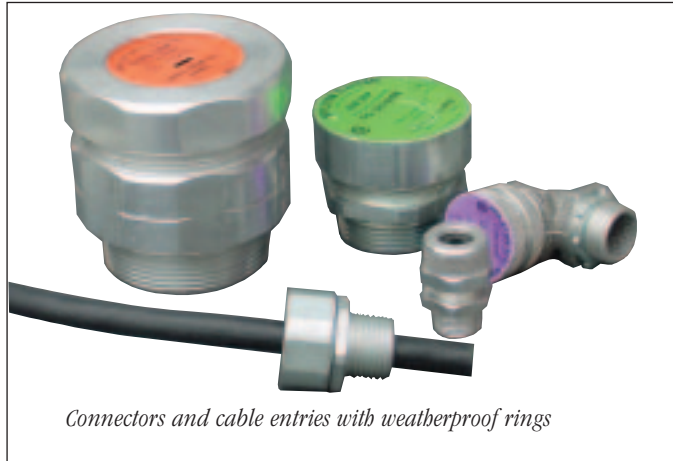



Cat. no.	A	B	C
0957 01	24	26.5	3.5
0957 02	33	36.5	3.5
0957 03	42	46.2	4.5
0957 07	19	21	3
0957 08	55	60	4.5
0957 09	65	70.1	5.5

Connections

The Appleton catalogue contains a complete range of connectors, cable entries and metal pipes, certified to North American standards (NEC and CEC), designed for industrial applications as well as installations in potentially explosive atmospheres.

For more information, contact your local representative or visit the website : www.appletonelec.com



- Conformity with standards 

Certification:

Class I, Div. 2 conforming to standard NEC 501.4(B)

Class II, Div. 1 and 2 conforming to standard NEC 501.4(A) & (B)

Class III, Div. 1 and 2 conforming to standard NEC 503.3(A) & (B)

Materials:

- Body : Aluminium or steel

- Sealing ring: Neoprene

Technical characteristics:

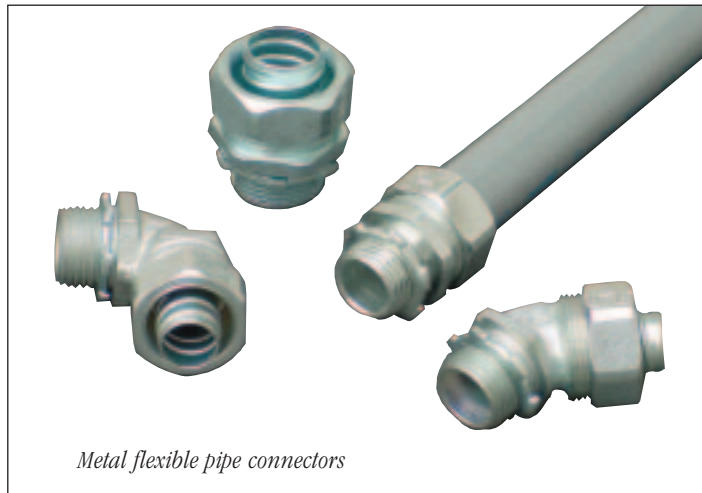
- For cables with external flexible gaskets in neoprene, hypalon and PVC

- 1/2" NPT to 4" NPT thread

- External cable diameter : From 0.06" to 4"

- Straight or 90° elbow connectors

For further information, please refer to section CC of the Appleton catalogue.



- Conformity with standards 

Certification:

Class I, Div. 2 conforming to standard NEC 501.4(B)

Class II, Div. 1 and 2 conforming to standard NEC 501.4(A) & (B)

Class III, Div. 1 and 2 conforming to standard NEC 503.3(A) & (B)

Materials:

- Painted, zinc-plated, bichromate steel

- Painted aluminium

Electrical characteristics:

- High tension resistance

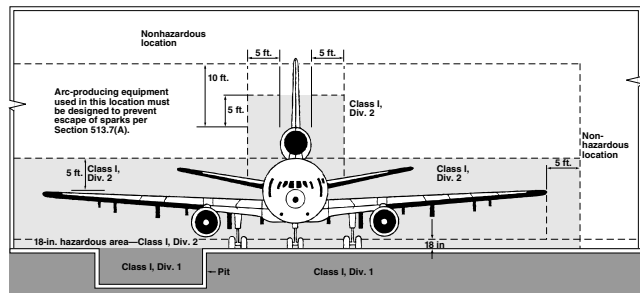
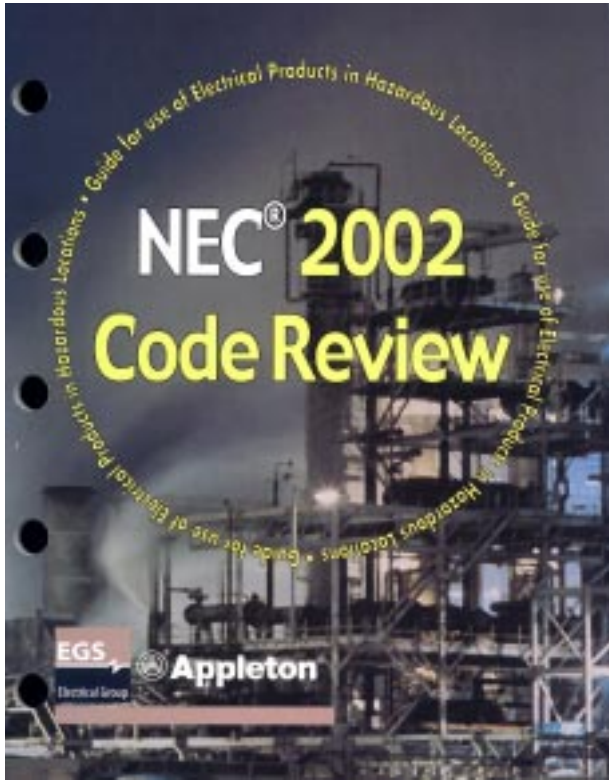
- Available with NPT, PG or ISO threads

- Straight, 45° or 90° elbow connectors

- Sealed against oil, water, dust and vapours

For further information, please refer to section ST of the Appleton catalogue.

Guide Appleton NEC 2002 code Review



Appleton guide - extract

Appleton has published the “Appleton NEC 2002 Code Review” in English, which, in line with the ATX guide on IEC and CENELEC standards, aims to provide a better understanding of North American standards (National Electric Code).

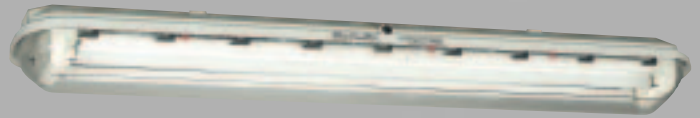
All the information required to study and set up electrical installations in an industrial context is contained in this document, including hazardous areas and their classifications, with strict adherence to NEC 2002 standards and very useful explanations helping you select the right material for each application. For more information, contact your local representative or visit the website: www.appletonelec.com



A complete ATEX range for zones 21 and 22

Lighting

IP66/67, IK10 fluorescent lighting, with central opening.



0965 69

Safety

Self-contained emergency lighting units battery cut-off switch.

Floodlights :
polycarbonate diffuser.



0963 96



0950 42

Equipment selection

To simplify selection of electrical equipment for use where dangerous dust is present, we used two reference documents : the Silo Guide and the ATX Guide.



Order from FCCAT
Tel +33 (0)1 53 00 90 00

Control

Control stations for one to six functions.

Polyester : *smooth finished*



0963 16



0963 13



0962 07

Connection

IP66 power sockets with built-in linear switch.



0974 27



0974 37

Junction

Boxes in fibre glass and carbon reinforced polyester or polycarbonate :

IK10 junction



0959 84



0961 18



0956 06

Silos and storage areas where potentially explosive dust is present

CONTENTS

• Equipment for dust environment zones 21 and 22	
Standard and normal-emergency bi-pin fluorescent luminaires	274
Self-contained units with self-test system	276
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220/240 V standard and normal-emergency bi-pin fluorescent luminaires for non-armoured cable Zones 21 and 22 - dust environment



0965 73 2 x 58W



0965 72 2 x 36W



0965 69 2 x 18W



Charging LED indicator

18, 36 and 58 W standard fluorescent luminaires for zones 21 and 22

- Bi-pin lamps Ø 26 mm, standard G 13 lampholders
- Pre-impregnated fibre glass reinforced polyester body
- Polycarbonate diffuser hinged to body
- Elastomer gasket
- Reflector in white lacquered steel
- High temperature internal wiring
- Open and close using an Allen key or flat screwdriver (system automatically protects against over turning)
- 1 entry
 - 1 connector block 3 x 4 mm² max. flexible
- Supplied with :
 - 1 x M20 polyamide cable gland (sealed Ø 6,5 to 14.5 mm)

Without switch which operates on opening

- Frequency : 50 Hz
- Power supply via ballast 230 V~ +6% -10%

Lamps (W) not supplied	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
1 x 18	5.5	32.3	0965 67	1
2 x 18	5.5	32.3	0965 17	1
1 x 36	7.9	54.2	0965 63	1
2 x 36	7.9	54.2	0965 40	1
1 x 58	9	65	0965 64	1
2 x 58	9	65	0965 65	1

With switch which operates on opening

- Frequency : 50/60 Hz
- Power supply via high frequency electronic ballast 230/240 V~ ± 10%, 198 to 264 V etc.
- Instant start. Power factor ≥ 0.95
- Terminal block cover allows lamps to be replaced with the mains power switched on
- Power supply to the unit cut off by positive safety switch which operates when diffuser is opened, for replacing lamps with the mains power switched on

Lamps (W) not supplied	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
2 x 18	5.5	32.3	0965 69	1
2 x 36	7.9	54.2	0965 72	1
2 x 58	9	65	0965 73	1

36 W normal-emergency fluorescent luminaires for zones 21 and 22

With switches which operate on opening

- Terminal block cover allows lamps to be replaced with the mains power switched on
- Power supply to the unit (mains supply and battery) cut off by 2 positive safety switches which operate when diffuser is opened, for replacing lamps with the mains power switched on
- Bi-pin lamps Ø 26 mm, standard G 13 lampholders
- Frequency : 50/60 Hz
- Power supply via ballast 230/240 V~ ± 10%, 198 to 264 V
- Instant start. Power factor ≥ 0.90
- Common power supply circuit for providing both normal and emergency lighting
- Battery voltage 8.4 V 4 amps
- Operation – mains power switched on 2 lamps lit
 - mains power switched off 1 lamp lit

Lamp (W) (not supplied)	Endurance for 1 lamp	Flux in emergency mode	Weight (kg)	Volume (dm ³)	Cat. No. 220/240V	Pack
2 x 36	3 hrs	16%	9.9	54.2	0963 48	1

With switch which operates on opening

Positive safety switch cutting battery off when diffuser is opened

Lamp (W) (not supplied)	Endurance for 1 lamp	Flux in emergency mode	Weight (kg)	Volume (dm ³)	Cat. No. 220/240V	Pack
2 x 36	3 hrs	16%	9.9	54.2	0967 10	1

Fixing accessories

- See page 12

For special options, please consult us:

- 18 or 58 W normal-emergency
- Tap-off connection (2 entries) or through wiring (2 and 3 entries)

Fixing accessory dimensions (see pages 36-37)

Installation/connection modes (see pages 38-39)

Spare parts (see page 290)

TECHNICAL DATA

Zones :

- 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive 94/9 EC and standard EN 50281-1-1 "combustible dust"
 - EC 0081 II 2 D T = + 85°C for dust

Certification :

- Approved type FLp
- CENELEC LCIE 02 ATEX 6067
- **C** declaration of conformity No. 50227
- Conforming to standard EN 60598-1 for luminaires
- Conforming to electromagnetic compatibility (EMC)
 - EN 55015 and EN 61547

Protection index :

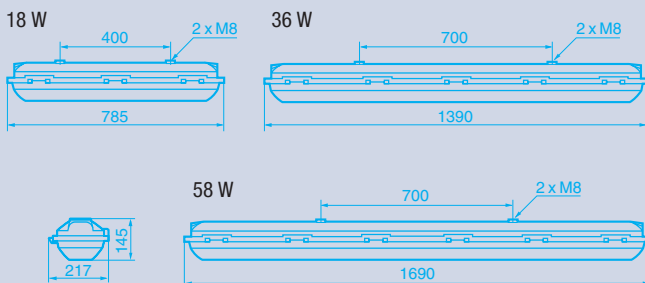
- IP66/67 according to EN 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

- 20°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :



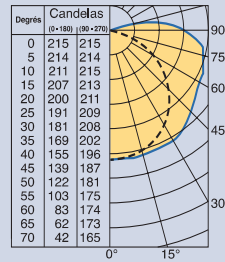
Zone 21 & 22	ATEX	EC	II 2 D
T = 85°C	IP66/67	IK10	

Photometric data (photometry p. G62) polar curves for a 1000 lm flux, according to NF C 71-120

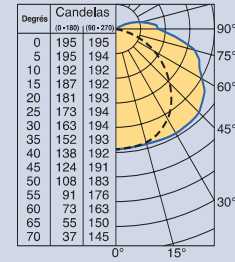
Luminaire symbol according to NF C 71-121

--- longitudinal
— transverse

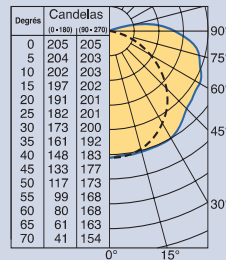
(1 x 18 W)
Efficiency 94,8 %
NF C 71-121 : 0,86 H + 0,09 T



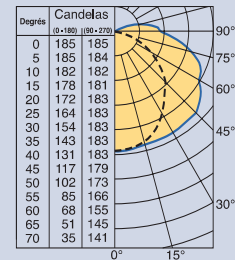
(2 x 18 W)
Efficiency 85,1 %
NF C 71-121 : 0,78 H + 0,08 T



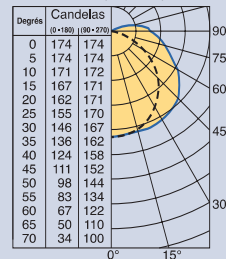
(1 x 36 W)
Efficiency 89,3 %
NF C 71-121 : 0,81 H + 0,08 T



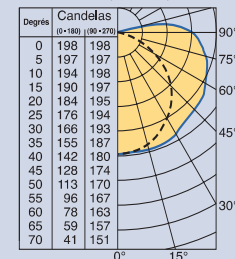
(2 x 36 W)
Efficiency 80,5 %
NF C 71-121 : 0,73 H + 0,07 T



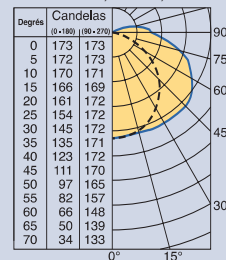
(3 x 36 W)
Efficiency 68,1 %
NF C 71-121 : 0,63 G + 0,05 T



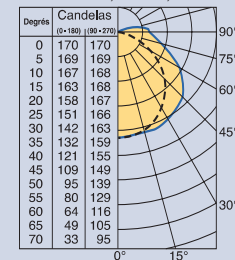
(1 x 58 W)
Efficiency 87,5 %
NF C 71-121 : 0,80 H + 0,07 T



(2 x 58 W)
Efficiency 76,9 %
NF C 71-121 : 0,70 H + 0,07 T



(3 x 58 W)
Efficiency 65,6 %
NF C 71-121 : 0,61 G + 0,04 T





0963 96

Lighting units with self-test system maintainable in zones 21 and 22

- Power supply: 230 V (+6% -10%) - 50/60 Hz
- Normal endurance: 1 hr
- SATI module: built-in self-test system
- Memorization of tests via diodes
- automatic lamp test every 7 days
- automatic lamp and battery test every 70 days
- Remote control with box Legrand Cat. No. 039 01 or URA 0954 48 and 0954 50 (to be placed outside the zone), protected against connection errors. Manual operation of lighting all units (maximum 300) for a visual check that they are working correctly
- Pre-impregnated fibre glass reinforced polyester body
- Polycarbonate diffuser hinged to body
- Elastomer gasket
- High temperature internal wiring
- Operate in any position
- Open and close using an Allen key or flat screwdriver (system automatically protects against over turning)
- Connection via removable terminal block 2 x 5 x 2.5 mm² terminals
- 2 entries with clearance holes at 1 end for M20 cable gland
- Supplied with :
 - 1 x M20 cable gland (sealed Ø 6.5 to 14.5 mm)
 - 1 plug, 2 nuts and 2 seals

Large area lighting

- Modules with 8 W fluorescent lamp (415 lm nominal flux, 1 hr endurance) comprising :
 - one 8 W fluorescent tube
 - Charge indicator : 4 nos. yellow Led. (life time over 10 years)

Escape route lighting

- Modules with incandescent lamp (63 lm nominal flux, 1 hr endurance) comprising :
 - two 3.6 V - 1 A safety lamps with BA9S lampholder
 - Charge indicator : 4 nos. yellow Led. (life time over 10 years)

Lighting unit without automatic mains power cut-off

- Positive safety switch automatically cuts off the battery circuit and operates on opening the diffuser. Safety lamps can be replaced in the zone, on the express condition that the line supplying power to the unit has been switched off and the remote control circuit has been cut.

Large area lighting	No. of lumens	Endurance	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
8 W fluorescent	415 lm	1 hr	7.2	32.3	0963 98	1

Escape route lighting	lumens	Endurance	Weight	Volume	Cat. No.	Pack
Incandescent	63 lm	1 hr	7.2	32.3	0963 97	1

Part number in bold : fast moving references

Lighting unit with automatic mains power cut-off

- 2 positive safety switches: the first switch automatically cuts the battery circuit and the second automatically cuts the mains power to the unit and operates when the diffuser is opened. Safety lamps can be replaced in the zone, without having to switch off the entire power supply but on the express condition that the remote control circuit has been cut.

Large area lighting	No. of lumens	Endurance	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
8 W fluorescent	415 lm	1 hr	7.2	32.3	0963 96	1

Escape route lighting	lumens	Endurance	Weight	Volume	Cat. No.	Pack
Incandescent	63 lm	1 hr	7.2	32.3	0963 86	1

Fixing accessories

	Cat. Nos.	Pack
Set of 2 half-clamps for fixing under Ø 49 mm (1" 1/2) or Ø 42 mm (1" 1/4) lamp	0965 93	1
For fixing under Ø 60 mm (2") lamp	0965 91	1
Set of 2 zinc-plated steel M8 ring bolts for suspending the unit	0965 94	1
Set of 2 aluminium brackets for fixing unit on flat surface.	0965 97	1
316 stainless steel version	0965 90	1
Set of 2 aluminium hinged brackets for adjusting direction of luminaire when wall-mounted.	0965 98	1
316 stainless steel version	0965 74	1
Set of 2 zinc-plated steel brackets for quick fixing with one hand	0965 96	1
316 stainless steel version	0965 89	1
8 W fluorescent lamp	0949 90	5
3.6 V - 1 A safety lamp with BA9S lampholder	0949 95	25

For special options, please consult us:

- Modules equipped with an additional switch which automatically cuts the remote control circuit
- Modules equipped with a device for replacing batteries in the zone
- Addressable modules ("Bus" system, computerised central control of tests and faults)

Spare parts (see page 290)

Signalling labels (see page 89)

TECHNICAL DATA

Zone 21 & 22	ATEX	EC	II 2 D
T = 85°C	IP66/67	IK10	

Zones :

- 21 - 22

Classification :

- According to CENELEC:
 - Conforming to ATEX Directive - 94/9 EC
 - EC 0081 II 2 D T = + 85°C for dust

Certification :

- Approved type FLP
- CENELEC LCIE 02 ATEX 6067
- declaration of conformity No. 5.0227
- Conforming to standards EN 60598-1 and EN 60598-2-22 for luminaires
- Conforming to standard EN 50281-1-1 "combustible dust"
- Conforming to electromagnetic compatibility standards (EMC)
 - EN 55015 and EN 61547
- Conforming to standard NFC 71-801
- Awarded the mark NF AEAS

Protection index :

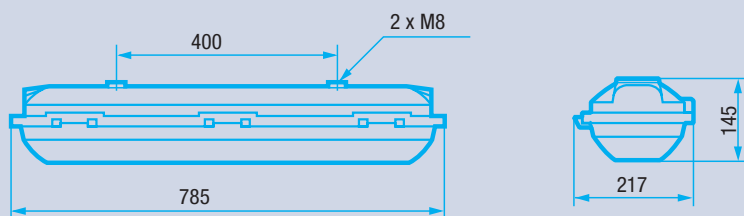
- IP66/67 according to EN 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

- 20°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :



70 to 250 W - 230/240 V - 50 Hz floodlights

Zones 21 and 22 - dust environment



0950 42

Floodlights for zones 21 and 22

- Power supply: 220/230 V ($\pm 10\%$) 50 Hz compensated
- power factor ≥ 0.9
- Painted aluminium alloy housing
- Lamp glass sealed on hinged frame
- Anodised aluminium internal reflector
- E40 lampholder (except 70 W sodium HP: E27) for oval lamps or tubular lamps
- Operate in any position
- 2 vibration resistant connection terminals : capacity 2 x 6 mm²
- 2 earth terminals capacity 6 mm²
- 2 x M20 tapped entries for through wiring

Standard with lamp glass sealed on frame

- Supplied with 1 x M20 plug

Permissible lamps (not supplied)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
250W Mercury (1)	12.9	62.5	0950 44	1
70W Sodium HP	12.1	62.5	0950 33	1
150W Sodium HP	12.9	62.5	0950 36	1
250W Sodium HP	14.3	62.5	0950 42	1
150W Metal halide	12.9	62.5	0950 37	1
250W Metal halide	14.3	62.5	0950 46	1

(1) Oval lamp only

With external polycarbonate weatherproof protection

Permissible lamps (not supplied)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
250W Mercury (1)	14	62.5	0950 95	1
70W Sodium HP	13.2	62.5	0950 88	1
150W Sodium HP	14	62.5	0950 97	1
250W Sodium HP	15.4	62.5	0950 98	1
150W Metal halide	14	62.5	0950 94	1
250W Metal halide	15.4	62.5	0950 96	1

(1) Oval lamp only

For special options, please consult us:

- Other voltages
- 80 W and 125 W mercury
- 400 W Mercury, Sodium HP, Iodides

Cable gland (see pages 254/257/258/259 and 288)

Zones 21 & 22	ATEX	EC	II 2 D
T = 70 to 136°C	IP66	IK07 or IK08	

TECHNICAL DATA

Zones : • 21 - 22

Classification :

- According to CENELEC:
 - Conforming to ATEX Directive - 94/9 EC
 - EC 0081 II 2 D T = (*)°C

Operating position	Surface temperature for Ta = + 40°C	
	Lamp glass	Polycarbonate lamp glass
70W sodium	75°C	65°C
150W sodium	101°C	91°C
250W sodium	127°C	117°C
250W halide	123°C	113°C
250W mercury	136°C	131°C

For applications requiring "lighting facing up", please consult us

Certification :

- Approved type PJP
- CENELEC LCIE 02 ATEX 6246
- declaration of conformity No. 50251
- Conforming to standard EN 60598-1 for luminaires
- Conforming to standard EN 50281-1-1 "combustible dust"
- Conforming to the electromagnetic compatibility standard (EMC) - EN 55015

Protection index :

- IP66 according to EN 60529
- IK07 mechanical resistance according to EN 50102 (with lamp glass)
- IK08 mechanical resistance according to EN 50102 (with polycarbonate)

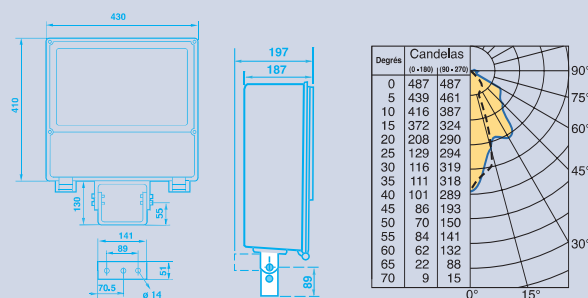
Operating temperature :

- 20°C to + 40°C

Anticorrosion treatment and climate protection : see page G50

Dimensions (mm) :

photometric curve :



Product features/customer benefits

- quick access to the lamp: very quick maintenance
- separate compartments for wiring accessories: reliability, long service life
- version with polycarbonate protection: robust design, compliance with food industry regulations (sugar silos, etc)



0963 16



0963 13

Control stations for zones 21 and 22

- Polyester box and cover
- A2 stainless steel screws
- Components fixed at the back of the box
- 1 earth terminal 2 x 4 mm²
- 2 x M20 entries at the bottom for cable gland (not supplied)

Size 1 (120 x 110)

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
1 push-button with "start" insert 1 NO	0.7	2.3	0963 05	1
1 push-button with "stop" insert 1 NC	0.7	2.3	0962 98	1
1 "EMERGENCY STOP" button, Red mushroom head, push-pull 1 NC	0.7	2.3	0963 13	1
1 "EMERGENCY STOP" button, C/O key-operated mushroom head	0.7	2.3	0963 04	1
1 x 25 A three pole switch Padlockable rotary switch handle (capacity Ø 8 mm maximum length 15 mm minimum)	1	2.3	0962 07	1
1 selector switch with 3 positions 2 NO (positions I - 0 - II; I and II latching)	0.7	2.3	0962 20	1

Size 2 (170 x 110)

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
1 push-button with "start" insert 1 NO	0.9	2.7	0963 16	1
1 push-button with "stop" insert 1 NC				
1 push-button with "start" insert 1 NO	0.9	2.7	0962 21	1
1 "EMERGENCY STOP" button, red mushroom head, push-pull 1 NC				

Size 3 (230 x 110)

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
1 x 12 to 30 V red LED indicator	1	4.9	0962 22	1
1 push-button with "start" insert 1 NO				
1 "EMERGENCY STOP" button red mushroom head, push-pull 1 NC				

For special options, please consult us:

- Stations with 1 to 6 functions, 3-pole switch
- Any combination of drill holes, contacts, actuators and ammeter

Cable gland (see pages 254/257/258/259 and 288)

Part number in bold : fast moving references

Zones 21 & 22	ATEX	IEC	EC	II 2 D
T = 80°C	IP66	IK10		

TECHNICAL DATA

Zones :

- 21 - 22

Classification :

- According to CENELEC:
 - Conforming to ATEX Directive - 94/9 EC
 - EC 0081 II 2 D T = + 80°C
- According to IEC:
 - DIPA 21 TA = + 80°C

Certification :

- Approved type CAP
- CENELEC LCIE 01 ATEX 6049
- IEC LCIE Ex 01.003
- declaration of conformity No. 50224
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

- 55°C to + 60°C

25 A double pole and 3-pole switch :

Rated operating power

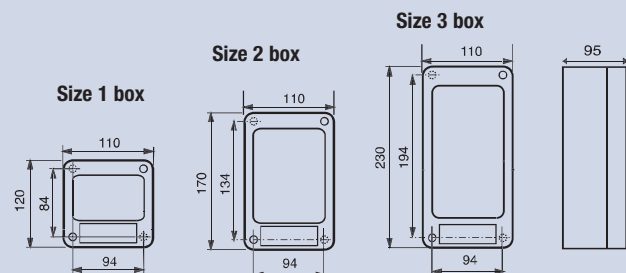
	230 V	400 V	500 V	690 V
AC - 23 A	5.5 kW	7.5 kW	7.5 kW	7.5 kW
AC - 3	4 kW	5.5 kW	5.5 kW	5.5 kW

Control stations with 1 to 6 functions:

Breaking capacity :

AC 15:	230 V 6 A	DC 13:	24 V 3 A
	400 V 4 A		110 V 0.8 A
	500 V 2 A		220 V 0.3 A

Dimensions (mm) :



Fixing : two holes Ø 5 Fixing : two holes Ø 5 Fixing : two holes Ø 5

Product features/customer benefits :

- Carbon-reinforced polyester box : robust design and run-off of electrostatic charges
- Ø 30 mm actuator : easy, safe access to control buttons

Data sheet available on request

316 L stainless steel modular control boxes and enclosures

Zones 21 and 22 - dust environment



Terminal block
0971 80 + 0972 21

Enclosures for zones 21 and 22

- Depth 200 mm
- Ready for drilling, assembling and wiring in the workshop or on site provided that all instructions for assembly and technical characteristics are strictly complied with (number of terminals, dissipated power, number of cable glands, etc)
- Supplied without gland plate, chassis or terminal block
- Supplied with:
 - fixing brackets and earth stud (316 L stainless steel M8)

Catalogue numbers

External dimensions Ht/Width/Depth mm	Max. dissipated power	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
370 x 260 x 200	50 W	9	19.24	0971 80	1
560 x 370 x 200	83 W	19	41.44	0971 81	1
750 x 560 x 200	138 W	33	84	0971 82	1

Accessories

Rear plate

For enclosures	Dimensions	Weight	Volume	Cat. No.	Pack
(0971 80)	310 x 210	1.2	5.8	0972 82	1
(0971 81)	500 x 310	2.5	12.5	0972 84	1
(0971 82)	690 x 500	5	25.2	0972 87	1

Chassis

For enclosures	Dimensions	Weight	Volume	Cat. No.	Pack
(0971 80)	310 x 210	0.75	1.1	0972 21	1
(0971 81)	500 x 310	1.7	2.4	0972 22	1
(0971 82)	690 x 500	3.2	3.7	0972 24	1

Padlocking

For all enclosures	Dimensions	Weight	Volume	Cat. No.	Pack
/	/			0972 09	1

For special options, please consult us:

- Multiple drilling on request
- Painted 316 L stainless steel enclosures
- 304 stainless steel enclosures
- Painted sheet steel boxes
- Other dimensions

Cable gland for armoured cable (see pages 252-262)

Cable gland (see pages 254/257/258/259 and 288)



Part number in bold : fast moving references

Zones 21 & 22	ATEX	IEC	EC	II 2 D
T = 110°C	IP66	IK10		

TECHNICAL DATA

Zones :

- 21-22

Classification :

- According to CENELEC:
 - Conforming to ATEX Directive - 94/9 EC
 - EC 0081 II 2 D T = + 110°C
- According to IEC:
 - DIPA 21 TA = + 110°C

Certification :

- Approved type BIP
- CENELEC LCIE 05 ATEX 6056X
- declaration of conformity No. 50264
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”

Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

- 40°C to + 55°C

Dissipated power:

0971 80	50 W
0971 81	83 W
0971 82	138 W

Dimensions (mm) :

- see stainless steel enclosures on page 155

Undrilled junction and instrumentation boxes and enclosures

Zones 21 et 22 - dust environment



0959 84



0959 95

Polyester boxes for zones 21 and 22

- Black
- Cover closed with stainless steel screws
- Earth stud

Catalogue numbers

External dimensions Ht/Width/Depth mm	Max. dissipated power	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
120 x 110 x 95	6 W	0.7	2.3	0959 80	1
170 x 110 x 95	11 W	0.9	2.7	0959 81	1
230 x 110 x 95	16 W	1	4.9	0959 82	1
215 x 200 x 150	17 W	2.9	12.5	0959 83	1
320 x 200 x 150	22 W	3.9	14.5	0959 84	1
425 x 200 x 150	29 W	4.5	23	0959 85	1
575 x 200 x 150	36 W	8.8	44.3	0959 86	1

Aluminium boxes for zones 21 and 22

- Grey painted aluminium
- Cover closed with stainless steel screws
- M8 earth stud (Cat. Nos. 0959 93 to 96)
- External earth screw for (Cat. Nos. 0959 90 to 92)

Catalogue numbers

External dimensions Ht/Width/Depth mm	Max. dissipated power	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
110 x 110 x 95	6 W	0.9	2.3	0959 90	1
170 x 110 x 95	11 W	1.2	2.7	0959 91	1
230 x 110 x 95	16 W	1.5	4.9	0959 92	1
215 x 205 x 130	17 W	3.7	12.5	0959 93	1
320 x 205 x 130	22 W	4.8	14.5	0959 94	1
425 x 205 x 130	29 W	5.6	23	0959 95	1
480 x 380 x 190	36 W	11	53.8	0959 96	1

For special options, please consult us:

- Multiple drilling on request
- Cable gland (see pages 254/257/258/259 and 288)

Zones 21 & 22	ATEX	IEC	EC	II 2 D
T = 80°C	IP66	IK10		

TECHNICAL DATA

Zones :

- 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive - 94/9 EC
 - EC 0081 II 2 D T = + 80°C
- According to IEC :
 - DIPA 21 TA = + 80°C

Certification :

- Approved type CAP
- CENELEC LCIE 01 ATEX 6049
- IEC LCIE Ex 01.003
- declaration of conformity No. 50224
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 “combustible dust”

Protection index :

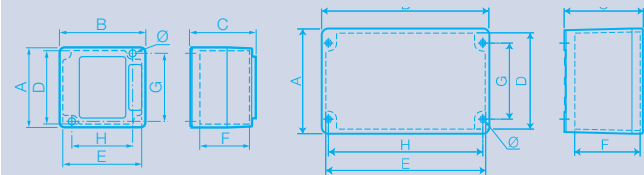
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

- 55°C to + 60°C

Dimensions (mm) :

Cat. No.	Dimensions(mm)						Fixings (mm)			
	External			Internal			lugs		pattes	
	A	B	C	D	E	F	G	H		
0959 80	110	120	95	100	110	70	94	84	20	5
0959 81	110	170	95	100	160	70	94	134	20	5
0959 82	110	230	95	100	220	70	94	194	20	5
0959 83	200	215	150	185	200	125	146	189	6	5
0959 84	200	320	150	185	305	125	146	294	6	5
0959 85	200	425	150	185	410	125	146	399	6	5
0959 86	200	575	150	185	580	125	146	548	6	5
0959 90	110	110	95	100	110	70	94	84	20	5
0959 91	110	170	95	100	160	70	94	134	20	5
0959 92	110	230	95	100	220	70	94	194	20	5
0959 93	205	215	130	190	200	105	146	186	10	6,5
0959 94	205	320	130	190	305	105	146	290	10	6,5
0959 95	205	425	130	190	410	105	146	398	10	6,5
0959 96	480	380	190	378	279	132	404	305	13	7



Product features/customer benefits

- Range available in 2 materials : **adaptability to harsh operating conditions on site**

Data sheet available on request

Part number in bold : fast moving references



0959 71

0959 77

Black polyester enclosures for zones 21 and 22

- Protective flange: one at the top and one at the bottom
- Interchangeable, padlockable locks
- Closed with plastic double bar locks. Supplied with a key.
- 4 fixing lugs supplied. Doors mounted on hinges

Enclosures with solid door

Size	External dimensions Ht/Width/Depth mm	Bottom aperture	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
1	400 x 300 x 200	No (2)	4.8	25	0959 87	1
2	500 x 400 x 200	Yes (1) (3)	6.2	51	0959 71	1
3	600 x 400 x 250	Yes (1) (3)	7.7	80	0959 72	1
4	800 x 600 x 300	No	18.3	190	0959 73	1
5	1000 x 800 x 300	No	23.6	313	0959 74	1

(1) For plate 114 x 322 (Cat. No. 0964 85 or 0964 86)

(2) On request: aperture for plate 130 x 264 (Cat. No. 0964 90)

(3) On request: without bottom aperture

Enclosures with door aperture

Size	Dimensions mm Ht x Width x Depth	Bottom aperture	No. of door apertures	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
2	500 x 400 x 200	Yes	3 (2)	6.4	51	0959 77	1
3	600 x 400 x 250	Yes	4 (2)	8.5	80	0959 78	1

(2) For plate 130 x 264

Accessories

"Telequick" perforated plate (zinc bichromate)

For enclosure (ht x width in mm)	Dimensions (mm)	Weight (Kg)	Cat. No.	Pack
400 x 300	350 x 250	1.2	0964 52	1
500 x 400	450 x 350	1.1	0964 53	1
600 x 400	550 x 350	1.5	0964 54	1
800 x 600	750 x 550	3	0964 55	1
1000 x 800	950 x 750	5.5	0964 56	1

Set of 2 uprights

For enclosure (height in mm)	Length (in mm)	Cat. No.	Pack
400	337	0964 75	5
500	437	0964 76	5
600	537	0964 77	5
800	737	0964 78	5
1000	937	0964 79	5

Crosspiece

For enclosure (width in mm)	Width of crosspiece (in mm)	Cat. No.	Pack
300	243	0964 81	10
400	343	0964 82	10
600	543	0964 83	10
800	743	0964 84	10

Part number in bold : fast moving references

Zones 21 & 22	ATEX	IEC	EC	II 2 D
T = 80°C	IP66	IK10		

TECHNICAL DATA

Zones : 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive - 94/9 EC
 - EC 0081 II 2 D T = 80°C
- According to IEC :
 - DIPA 21 TA = 80°C

Certification :

- Approved type CAP
- CENELEC LCIE 01 ATEX 6049
- IEC LCIE Ex 01.003
- declaration of conformity No. 50224
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

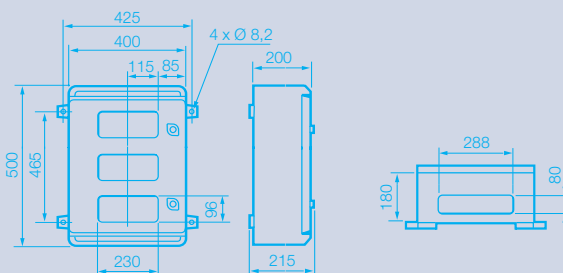
- 55°C to + 60°C

Dissipated power ratings :

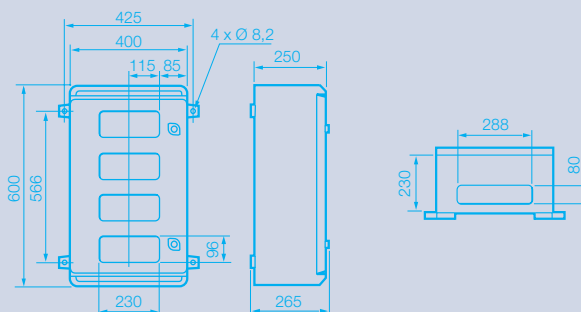
0959 87	55 W
0959 71/77	85 W
0959 72/78	125 W
0959 73/74	125 W

Dimensions (mm) :

0964 65/66

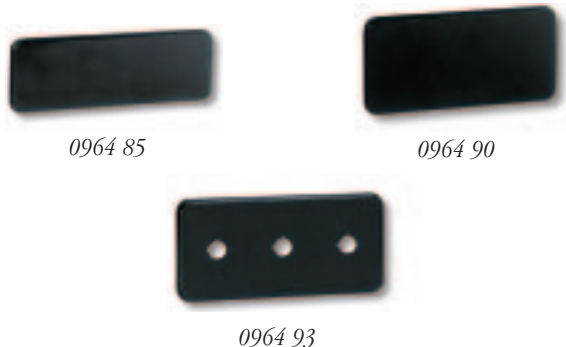


0964 71/72



Cover plates for ATX "Marina" enclosures

Zones 21 and 22 - dust environment



Cable entry plates

- Black polyester. Supplied with fixing screws

Plain plate (Drilling on request)

	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
Plate 130 x 264	0.3	1.3	0964 90	1
Plate 114 x 322	0.4	1.4	0964 85	1

Pre-drilled plate (For cable gland)

17 untapped holes for M20 and 3 holes for M25	0.3	1.4	0964 86	1
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Front plates for mounting on door

- Black polyester. Supplied with fixing screws

Plain plate

(Drilling on request)	Weight	Volume	Cat. No.	Pack
	0.4	1.2	0964 90	1

Pre-drilled plate with 2 double holes

• Fixed on one of the enclosure's central apertures For 2 double pole RCBOs	0.4	1.2	0966 99	1
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Pre-drilled plate with 2 holes

• Fixed on one of the enclosure's central apertures For two 3-pole or 4-pole MCBs	0.4	1.2	0964 99	1
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Pre-drilled plate with 4 holes Ø 30 + socket

For 4 push-buttons or indicators, and 1 flush-mounting socket outlet 16 A - 3P+E / 3P + N+E, or 16 A 2P + E (with adaptor Cat. No. 0964 96)	0.3	0.8	0964 87	1
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For 4 push-buttons or indicators, and 1 hole for flush-mounting socket outlet 32 A - 2 P + E / 3 P + E / 3 P + N + E	0.3	0.8	0964 88	1
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Note: Actuator for fixing on vertical DIN rails

Pre-drilled plate with 5 holes Ø 30

	Weight	Volume	Cat. No.	Pack
For push-buttons or indicators	0.4	1.2	0964 95	1

Pre-drilled plate with 3 holes Ø 30

For 4-pole switch, 16 A switch, indicator, single pole changeover switch, push-button, double pole MCB	0.4	1.2	0964 89	1
--	-----	-----	----------------	---

Note: (1) rotary actuator, use the heads designed for vertical DIN rails

Note: (2) double pole MCBs: must be mounted on the central aperture

Accessories

	Weight	Volume	Cat. No.	Pack
Plastic blanking plug for Ø 30 holes designed for buttons - rotary head and indicator	0.1	0.4	0983 38	1

For special options, please consult us:

- Earthing plates: size 1, 2, 3, 4 and 5

Zones 21 & 22	ATEX	IEC	EC	II 2 D
T = 80°C	IP66	IK10		

TECHNICAL DATA

Zones :

- 21 - 22

Classification :

- According to CENELEC :
 - Conforming to ATEX Directive - 94/9 EC
 - EC 0081 II 2 D T = 80°C
- According to IEC :
 - DIPA 21 TA = 80°C

Certification :

- Approved type CAP
- CENELEC LCIE 01 ATEX 6049
- IEC LCIE Ex 01.003
- declaration of conformity No. 50224
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

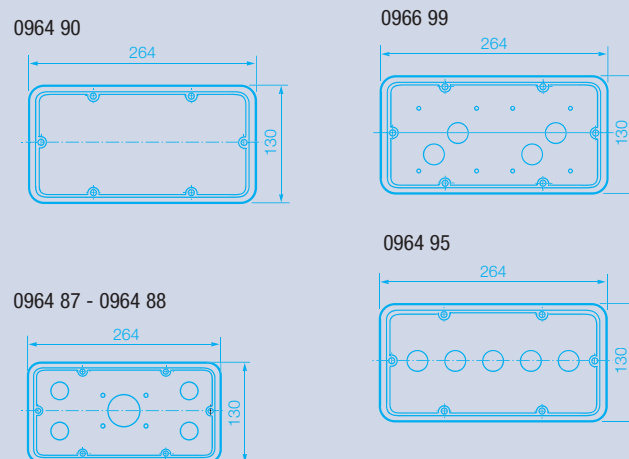
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

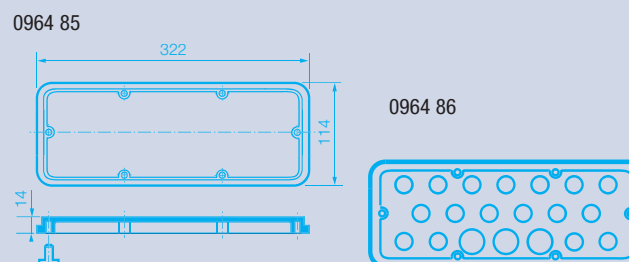
- 55°C to + 60°C

Dimensions (mm) :

Front plates



Cable entry plates



Data sheet available on request

Part number in bold : fast moving references

16/32 A surface mounting sockets - 20/25 V - 200/250 V and 380/415 V

Zones 21 and 22 - dust environment



Power socket
0974 27

16 and 32 A surface mounting sockets for zones 21 and 22

- Socket made of polyester or high-impact resistance plastic material
- Polyamide cover
- Total disconnection of poles via patented double acting safety device, which ensures the following on removal of plug:
 - Automatic and simultaneous disconnection of each phase in one flameproof chamber
 - Disconnection of the pins with the power off in a second flameproof chamber
- Can be padlocked in 3 positions (1 padlock, capacity \varnothing 5 mm, length 45 mm)
 - Plug inserted with the power on
 - Plug inserted with the power off
 - Socket closed with plug removed
- Sockets incorporate safety feature to accept only ATX plugs for potentially explosive atmospheres

16 A surface mounting sockets

- 3 x M20 threaded entries (1 at top, 2 at bottom)
- Connection via 2 x 4 mm² terminals
- Possible through-wiring socket connection
- Equipped with 3 linked earth terminals
- Supplied with:
 - 1 x M20 cable gland Cat. No. 0956 05 sealed \varnothing 6.5 to 14.5 mm
 - 2 x M20 blanking plugs

20 to 25 V ~ 50/60 Hz	Weight	Volume	Cat. No.	Pack
2 P + E	0.6	3.8	0973 68	1
200 to 250 V ~ 50/60 Hz				
2 P + E	0.6	3.8	0974 26	1
380 to 415 V ~ 50/60 Hz				
3 P + E	1.5	4.7	0974 27	1

32 A surface mounting sockets

- 3 x M25 threaded entries (1 at top, 2 at bottom)
- Connection via 2 x 6 mm² terminals
- Equipped with 3 linked earth terminals
- Supplied with:
 - 1 x M25 cable gland Cat. No. 0956 06 sealed \varnothing 8 to 18.5 mm
 - 2 x M25 blanking plugs

380 to 415 V ~ 50/60 Hz	Weight	Volume	Cat. No.	Pack
3 P + E	2	7	0977 27	1

- 16 and 32 A mobile sockets (see page 123)
- Other voltages and power ratings (see page 123)
- 63 and 125 A power sockets (see page 123)

Part number in bold : fast moving references

Zone 21 & 22 (1)	ATEX	ICE	EC	II 2 D
EEx ed IIC	T = 80°C	IP 66	ICC = 20 KA	IK10

TECHNICAL DATA

Zones : 21 - 22 (1) These products are also designed for use in zones 1 and 2

Classification :

- According to CENELEC
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18-19
 - EC 0081 II 2 G for gas EEx ed IIC T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C
 - EC 0081 II 2 D T = +80°C for dust
- According to IEC:
 - Conforming to standards IEC 60079-0/1/7 Ex ed IIC T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C
 - DIPA 21 TA = +80°C for dust

Certification :

- Approved type PCX:
- CENELEC LCIE 02 ATEX 6068
- IEC LCIE Ex 02.007
- declaration of conformity 50228
- Conforming to standards EN 60309.1 and EN 60309.2
- Withstand to prospective short-circuit currents ISC = 20 KA
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

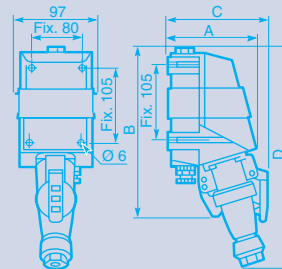
Protection index :

- IP66 according to EN 60529 and IEC 60529 (with or without plug inserted)
- IK10 mechanical resistance according to EN 50102

Operating temperature : - 40°C to + 55°C

Dimensions (mm) :

Plugs



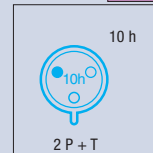
	A	B	C	D
2 P + T	140	275	155	370
3 P + T	140	275	155	370

Breaking capacities:

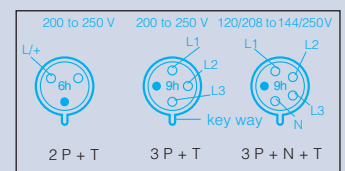
AC1 : 32 A - 500 V
 AC22 : 11 kW - 220 V
 12 kW - 240 V
 19 kW - 380 V
 20,7 kW - 415 V

Pin configurations

20 to 25 V ~



200 to 250 V ~ 50 /60 Hz Blue



Product features/customer benefits

- Built-in automatic switch : **simple operation**
- Non-stick silver contacts : **durability**
- Double flameproof chamber : **safe operation**

20/25 V plugs - 200/250 V - 380/415 V

Zones 21 and 22 - dust and gas environment



Plug 0974 37

16 and 32 A plugs

16 A plugs

- Polyamide body with safety feature to accept only ATX mobile plugs and sockets for potentially explosive atmospheres
- 1 entry via PG 16 integrated cable gland (sealed \varnothing 6,5 mm min - 14 max)
- Connection via 2.5 mm² terminal

Catalogue numbers

20 to 25 V~ 50/60 Hz	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
2 P + E	0.2	0.6	0973 88	1
200 to 250 V~ 50/60 Hz				
2 P + E	0.2	0.6	0974 33	1
380 to 415 V~ 50/60 Hz				
3 P + E	0.2	0.6	0974 37	1

32 A plugs

- 1 entry via PG 21 integrated cable gland (sealed \varnothing 8 mm min - 18.5 max)
- Polyamide body with safety feature to accept only ATX mobile plugs and sockets for potentially explosive atmospheres
- Connection via 6 mm² terminals

380 to 415 V~ 50/60 Hz	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
3 P + E	2	7	0977 37	1

For special options, please consult us:

- Other voltages and power ratings (see page 123)
- 63 and 125 A power sockets (see page 123)

Zones 21 & 22 (1)	ATEX	IEC	EC	II 2 D
EEx ed IIC	T = 80°C	IP66	ISC = 20 KA	IK10

TECHNICAL DATA

Zones : 21 - 22 (1) These products are also designed for use in zones 1 and 2

Classification:

- According to CENELEC
- Conforming to ATEX Directive 94/9 EC and standards EN 50014-18-19
- EC 0081 II 2 G for gas EEx ed IIC

T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C

- EC 0081 II 2 D T = +80°C for dust

• According to IEC:

- Conforming to standards IEC 60079-0/1/7 Ex ed IIC

T6 for Ta ≤ + 40°C T5 for + 40°C < Ta ≤ + 55°C

- DIPA 21 TA = +80°C for dust

Certification :

- Approved type PCX
- CENELEC LCIE 02 ATEX 6068
- IEC LCIE Ex 02.007
- declaration of conformity 50228
- Conforming to standards EN 60309.1 and EN 60309.2
- Withstand to prospective short-circuit currents ISC = 20 KA
- Conforming to standards EN 50281-1-1 and IEC 61214-1-1 "combustible dust"

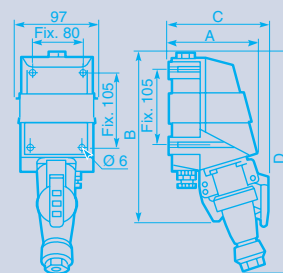
Protection index :

- IP66 according to EN 60529 and IEC 60529 (with or without plug inserted)
- IK10 mechanical resistance according to EN 50102

Operating temperature : - 40°C to + 55°C

Dimensions (mm) :

Plugs



	A	B	C	D
2 P + T	140	275	155	370
3 P + T	140	275	155	370

Breaking capacities:

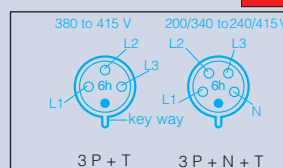
AC1 : 32 A - 500 V
 AC22 : 11 kW - 220 V
 12 kW - 240 V
 19 kW - 380 V
 20,7 kW - 415 V

Breaking capacities:

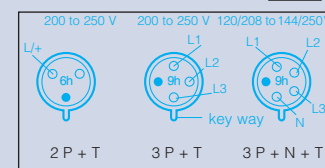
20 to 25 V ~



380 to 415 V~ 50 /60 Hz Red



200 to 250 V~ 50/60 Hz Blue



Product features/customer benefits

- Built-in automatic switch : **simple operation**
- Non-stick silver contacts : **durability**
- Double flameproof chamber : **safe operation**

Data sheet available on request



0961 18



0961 05



0960 32



0960 14



0970 00

Octagonal junction boxes

For cable 2.5/4 mm² - 660 V

- High impact resistance polycarbonate body and cover
- Equipped with :
 - 4 internal earth terminals – maximum capacity per terminal (1 x 4 mm²)
 - 4 connection terminals – maximum capacity per terminal (4 x 2.5 mm² or 2 x 4 mm² + 2 x 2.5 mm²) minimum capacity per terminal (2 x 1.5 mm²)
- Important : provide an additional cable grip device

Catalogue numbers

External dimensions (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
136 x 125 x 50				
4 entries via integrated cable gland 16 P grip Ø on seal: 8 to 16 mm (The knock-out cable gland cap can also be used as a plug)	0.4	2	0961 05	1
4 entries for cable gland PG16 not supplied (Cat. No. 0956 02) grip Ø on seal : 6.5 to 14.5 mm	0.4	2	0961 03	1

For cable 6/10 mm² -690 V

- High impact resistance polycarbonate body and cover
- Telescopic cover retaining pin (can be unclipped)
- Equipped with :
 - 4 internal earth terminals – maximum capacity per terminal (1 x 10 mm²)
 - 4 connection terminals – maximum capacity per terminal (4 x 6 mm² or 3 x 10 mm² + 4 mm²)

Catalogue numbers

External dimensions	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
121 x 121 x 72				
3 entries - supplied with 3 x M20 cable glands (sealed and grip Ø from 6 to 14.5 mm)	0.6	4.5	0961 12	1
4 entries - supplied with 4 x M20 cable glands (sealed and grip Ø from 6.5 to 14.5 mm)	0.6	4.5	0961 13	1
3 entries - supplied with 3 x M25 cable glands (sealed and grip Ø from 8 to 18.5 mm)	0.5	4.5	0961 18	1
4 entries - supplied with 4 x M25 cable glands (sealed and grip Ø from 8 to 18.5 mm)	0.6	4.5	0961 19	1

Rectangular junction boxes

- M20 and M25 threaded entries for cable gland (clearance hole for Cat. No. 0960 19), see position and number on technical data sheet
CAUTION: entries to be drilled on 316 L stainless steel box
- Supplied with Gravoply 63 x 18 mm identification labels (yellow with black engraving)
- Inside, EN 50022 fixing rail 7.5 mm deep (2 rails for Cat. No. 0960 19) for polyester and aluminium boxes
Rails to be ordered separately for 316 L stainless steel box

Black polyester

- Internal earth : 6 mm² terminal

Dimensions length x width x depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
120 x 110 x 95	0.7	2.1	0960 14	1
170 x 110 x 95	0.9	2.7	0960 15	1
230 x 110 x 95	1.1	3.2	0960 16	1
321 x 251 x 135	1.5	16	0960 19	1

Grey painted aluminium

- Internal earth : 6 mm² terminal (1 per entry). External earth : M5 screw

Dimensions length x width x depth (mm)	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
120 x 110 x 95	0.9	2.1	0960 31	1
170 x 110 x 95	1.2	2.7	0960 32	1
230 x 110 x 95	1.4	3.2	0960 33	1

Undrilled 316 L stainless steel

- Supplied undrilled, without Din rail or rear plate and equipped with an M6 earth stud.
- Optional drilling on side panels of boxes
- Equipped with 2 welded studs at the back of the box for fixing a plate or Din rail.
- Important : do not exceed the permissible number of terminals, dissipated power and maximum number of cable glands per face (page 157)

Ext. dimensions mm Ht/Width/Depth	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
120 x 120 x 95	1	1.37	0970 00	1
120 x 180 x 95	1.5	2	0970 01	1
180 x 180 x 95	1.8	3	0970 02	1

Accessories

	Cat. No.	Pack
Set of 10 rails for box 0970 00	0972 46	1
Set of 10 rails for box 0970 01/02	0972 47	1

- **Other stainless steel boxes and enclosures** (see page 145)
 - **Earth continuity adaptor** (see page 261)
- Cable gland (see pages 254/257/258/259 and 288)

Zones 21 & 22 (1)		ATEX	IEC	EC	II 2 D
EEx e II	T = 60 or 65°C	IP66	IK10		

TECHNICAL DATA

Zones : (1) These products are also designed for use in zones 1 and 2

- 21 - 22

Classification :

- According to CENELEC:
 - Conforming to ATEX Directive - 94/9 EC and standards EN 50014-19
 - EC 0081 Ex II 2 G for gas EEx e II T6
 - EC 0081 Ex II 2 D - T = 60°C (0961 03/05)
 - T = 65°C (096118/19/12/13)
- According to IEC:
 - Conforming to standards IEC 60049-0/7 Ex e II T6
 - DIPA 21 TA = 60°C (0961 03/05)
 - DIPA 21 TA = 65°C (0961 18/19/12/13)

Certification :

Cat. Nos.	Type	CENELEC	IEC	EC declaration of conformity
0961 03/05	BJe1	02 ATEX 6069	Ex 02.008	50226
0961 18/19/12/13	BJe2	99 ATEX 6003	Ex 99.005	50209

- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection indices :

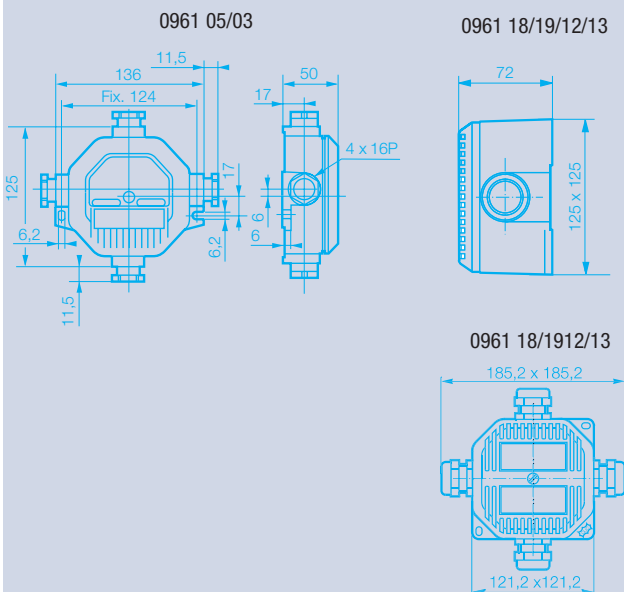
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Anticorrosion treatment and climate protection : see page G50

Operating temperature :

- 40°C + 55°C

Dimensions (mm) :



Product features/customer benefits

- Slotted terminals : several cables can be mounted quickly on the same terminal

Zones 21 & 22 (1)		ATEX	IEC	EC	II 2 D
EEx e II	T = 55 or 85°C	IP66	IK10		

TECHNICAL DATA

Zones : 21 - 22 (1) These products are also designed for use in zones 1 and 2

- According to CENELEC:
 - Conforming to ATEX Directive -94/9 EC and standards EN 50014-19
 - EC 0081 Ex II 2 G for gas EEx e II T6
 - EC 0081 Ex II 2 D T = 55°C (0961 14/15/16/31/32/33)
 - T = 85°C (0960 19)
- According to IEC:
 - Conforming to standards IEC 60049-1/7 Ex e II T6
 - DIPA 21 TA = 55°C (0960 14/15/16/31/32/33)
 - DIPA 21 TA = 65°C (0960 19)

Certification :

Cat. Nos.	Approved type	CENELEC	IEC	EC declaration of conformity
0961 14/15				
	BJe1	02 ATEX 6069	Ex 02.008	50226
0961 14/17	BJe2	99 ATEX 6003	Ex 99.005	50209

- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 "combustible dust"

Protection index :

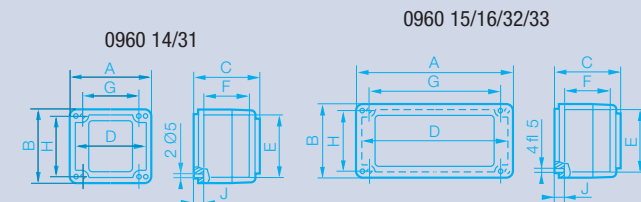
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Anticorrosion treatment and climate protection : see page G50

Operating temperature :

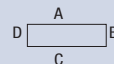
- 55 to + 60°C (0960 14/15/16/31/32/33)
- 40 to + 55°C (0960 19)

Dimensions (mm) :



Cat. No.	External dimensions			Internal dimensions			Fixing			Rail	No. of rails
	A	B	C	D	E	F	G	H	J		
0960 14/31	120	110	95	110	100	70	84	94	15	62	1
0960 15/32	170	110	95	160	100	70	134	94	15	112	1
0960 16/33	230	110	95	220	100	70	194	94	15	172	1

Drill holes



Drill holes	0960 14/31				0960 15/32				0960 16/33				0960 19			
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
M 20	1	1	2	1	-	1	2	1	-	2	3	2	-	3	8	3
M 25	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-
No. of 6 mm terminals	7				15				23				62			
with same pitch 8 mm	5				11				17				46			

Product features/customer benefits

- 3 materials : adaptation to all mechanical and chemical environments
- Terminals mounted on Din rails : possibility of mixing pitches and cross-sections of different terminals



0956 06



0957 18

Polyamide cable gland

Metric thread

- For non-armoured cables or armoured cables without earth continuity
- Polyamide body and locknuts (2 locknuts provided with each cable gland to cover the whole range)
- Neoprene sealing gaskets, supplied with weatherproof seal

Catalogue numbers

Metric thread	Cable seal		Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
	Ø min	Ø max				
M16	3	8.5	0.1	0.9	0957 56	10
M20	6.5	14.5	0.2	0.9	0956 05	10
M25	8	18.5	0.2	0.9	0956 06	10
M32	10	25	0.2	0.9	0957 57	10
M40	24	34	0.4	1.2	0957 58	1
M50	28	42	0.5	1.2	0957 59	1

Electrical thread

- Polyamide body
- Polyamide locknuts
- Neoprene sealing gaskets, supplied with weatherproof seal

Electrical thread	Cable seal		Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
	Ø min	Ø max				
PG 11	6.5	10.5	0.1	0.9	0956 00	10
PG 13	8	12.5	0.2	0.9	0956 01	10
PG 16	10	14	0.2	0.9	0956 02	10
PG 21	12.5	18.5	0.2	0.9	0956 03	10
PG 29	18	25	0.4	3.8	0956 04	10

Accessories

Nickel-plated brass nuts

Metric thread	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
M 16	0.04	0.08	0957 07	10
M 20	0.07	0.1	0957 01	10
M 25	0.1	0.2	0957 02	10
M 32	0.2	0.2	0957 03	10
M 40	0.2	0.2	0957 08	5
M 50	0.5	0.2	0957 09	5

Electrical thread	Weight (Kg)	Volume (dm ³)	Cat. No.	Pack
PG 11	0.03	0.08	0957 17	10
PG 13	0.04	0.08	0957 18	10
PG 16	0.1	0.08	0957 19	10
PG 21	0.1	0.4	0957 20	10
PG 29	0.2	0.4	0957 21	10

Zones 21 and 22		ATEX	IEC	EC	II 2 G/D
EEx e II	IP68	IK08			

TECHNICAL DATA

Zones :

- 21 - 22

Classification :

- According to CENELEC
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-19
 - EC 0081 II 2 G for gas EEx e II
 - EC 0081 II 2 D for dust
- According to IEC
 - Conforming to standards IEC 60079-0/1 Ex e II
 - DIPA 21 for dust

Certification :

- Approved type EExE
- CENELEC LCIE 99 ATEX 6030 X
- IEC LCIE Ex 03
- declaration of conformity no. 50233

Protection index :

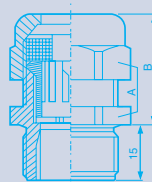
- IP68 according to IEC 60529 and EN 60529
- IK08 mechanical resistance according to EN 50102

Operating temperature :

- 20°C to +55°C

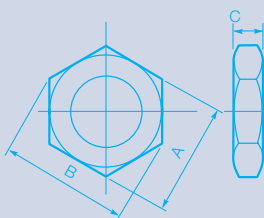
Dimensions (mm) :

- Cable gland



Cat. No.	A	B
0956 00	22	24
0956 01	24	26
0956 02	27	27
0956 03	33	32
0956 04	42	37
0956 05	27	30
0956 06	33	33
0957 56	19	24
0957 57	42	43
0957 58	55	47
0957 59	65	49

Locknut



Cat. No.	A	B	C
0957 01	24	26.5	3.5
0957 02	33	36.5	3.5
0957 03	42	46.2	4.5
0957 07	19	21	3
0957 08	55	60	4.5
0957 09	65	70.1	5.5
0957 17	22	24.5	3.5
0957 18	24	26.5	3.5
0957 19	27	30	3.5
0957 20	32	35	4
0957 21	46	53	4



0938 07

Limit switch

- Grey painted aluminium alloy box
- 1 x M20 or M25 threaded entry (cable gland not supplied)
- Threaded flameproof joint
- NO + NC contact component 10 A – 230 V~
Travel 7 mm maximum. Force 22 Newtons
- Connection via 2.5 mm² max terminals
- Internal earth: 4 mm². External earth: M5 screw

Catalogue number

	Weight (KG)	Volume (dm ³)	Cat. No. M20	Cat. No. M25	Pack
Perpendicular stainless steel roller actuator with 1/4 turn fixing (can be modified by the user) Force: 22 Newtons	1.1	6	0938 07	0938 05	1

Accessories

- **M25 integrated cable gland**

	Weight	Volume	Cat. No.	Pack
sealed Ø: 9 mm minimum - 15 mm maximum grip Ø: 22 mm maximum	2.70	0.8	0934 96	5
Cone shaped separator for flexible cable (see page 208)			0954 60	1

For special options, please consult us:

- Stations with ammeter

Flameproof cable glands (see page 251)

Cable gland (see pages 252/254/262 and 263)

Zones 21 & 22 (1)		ATEX	IEC	EC	II 2 G/D
EEx d	T6	T = 80°C or 85°C		IP66	IK10

TECHNICAL DATA

Zones :

- 21 - 22 (1) These products are also designed for use in zones 1 and 2

Classification:

- According to CENELEC:
 - Conforming to ATEX Directive 94/9 EC and standards EN 50014-18
 - EC 0081 II 2 G for gas EEx d IIC T6
 - EC 0081 II 2 D - T = + 80°C for dust
- According to IEC:
 - Conforming to standards IEC 60079-0/1 Ex d IIC T6
 - DIPA 21 Ta = + 80°C

Certification :

- Approved type BR1d
- CENELEC LCIE 02 ATEX 6056
- IEC LCIE Ex 02 005
- **C** declaration of conformity No. 50230
- Conforming to standards EN 50281-1-1 and IEC 61241-1-1 (combustible dust)

Protection index :

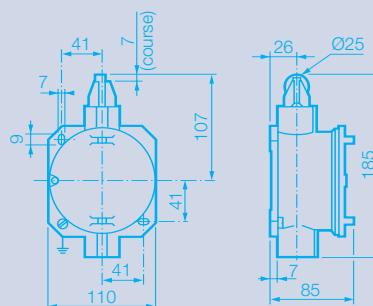
- IP66 according to EN 60529 and IEC 60529
- IK10 mechanical resistance according to EN 50102

Operating temperature :

- 40°C to + 55°C

Anticorrosion treatment and climate protection : see page G50

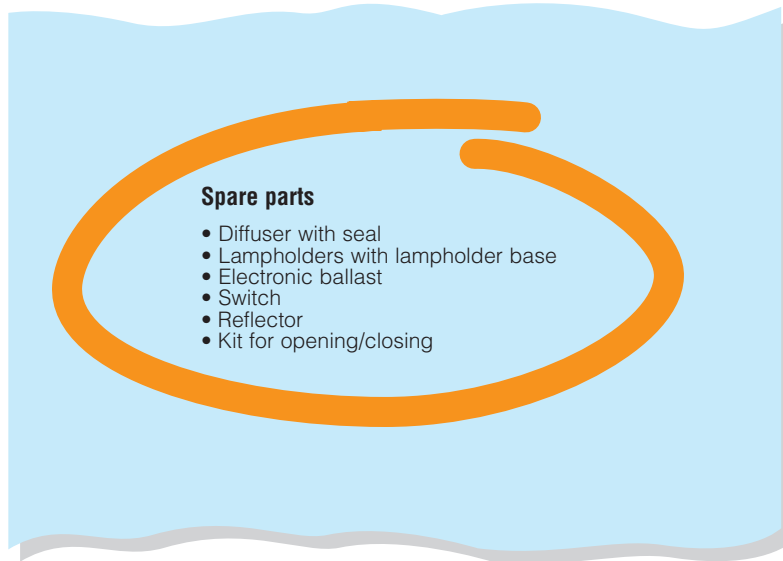
Dimensions (mm) :



After-Sales Technical Assistance
 Tel : + 33 3 22 54 27 88
 Fax : + 33 3 22 54 28 34
 Email : SAV@atx.fr

ATX Spare Parts

Identification procedure



To obtain spare parts, please identify and provide the following information from the product identification label:

- 1 the catalogue number
- 2 the manufacturing number of the part or attach a digital photo of the part to your e-mail.

Product identification label

These labels can be seen on all ATX products; from 1 July 2003 in Europe, only ATEX products can be sold; the sale of non-ATEX spare parts is permitted for product maintenance purposes (see guide pages 16 and 17).

Outside Europe, sales of non-ATEX products are still permitted; hence, non-ATEX spare parts can still be sold.

Example of identification marking for luminaires

Amiens - FRANCE	Type FLP	096540
CE 0081 II 2 D - T = 85°C	IP 66/67 - IK10	2 x 36 W
LCIE 02 ATEX 6067	- 20°C ≤ Ta < 55°C	230 V 50 Hz - 0.45 A
		N° 0312345

"e" fluorescent luminaire zones 1 and 2

Amiens - FRANCE	Type FLe	096555
Ex eds IIC T4 LCIE Ex 98.012	N° 03123456	2 x 36 W (CEI 61-1)
DIP A21 Ta = 85°C	220/240 V 50/60 Hz - 0.35 A CLASS 1	
	IP 66/67 - 20°C ≤ Ta ≤ 55°C	

"e" fluorescent luminaire zones 21 and 22

Réf. 948 05	
N° : 03123457	
Amiens - France Type FLd	
LCIE 97 ATEX 6012	230 v 50 Hz 0.45 A
II 2 G - EEx d II B T6	Ta = 20°C / + 55°C
II 2 D - T 85°C (T6)	
Ex d II B T6 LCIE N° 386 343	
DELAI D'ATTENTE AVANT OUVERTURE	
TIME BEFORE OPENING 30 min	
TIEMPO DE ESPERA ANTES DE LA APERTURA	
NE PAS OUVRIR SOUS TENSION	
Classe I	
DO NOT OPEN WHEN ENERGIZED	
IP 66/67	
NO ABRIR BAJO TENSION	
2 LAMPES A CULOT G13 / 2 G13 SOCKET LAMPS / 2 CASQUILLOS G13	
(CEI 61 - 1) - 2 X 36 W	DIP.B 21/22 TB = T6
LCIE n° 405 685	DIP.A 21/22 TA = T6

Spare parts Inquiry

After-Sales Technical Assistance

Tel : + 33 3 22 54 27 63 or 73

Fax : + 33 3 22 54 28 34

Email : SAV@atx.fr

YOUR DETAILS

Company name

Full name

Address

.....


Town Postcode.....

Country Telephone.....

Fax..... E-mail

Before writing down your request, carefully check the 5, 6 or 7 digit numbers which can be found on the product identification label and enter them under corresponding sections **1** and **2**

1 Product catalogue number	2 Serial number	Description of the spare part required	Quantity


 * Please write legibly or use your company stamp

The conformity of the products supplied is guaranteed by the CE declaration of conformity, delivered for all products complying with Cenelec approvals, as well as by the LCIE 02 ATEX Q8019 notification which certifies that, in conformity with appendix IV, ATX production quality system conforms to standard NF EN 13980

of December 1992. The requirements of this standard for manufacturers of materials for potentially explosive atmospheres are in addition to the requirements of standard EN ISO 9001 (2000) for which ATX passed AFAQ certification under number 1994/2021c on July 11 th 2002.

Quality Assurance and Appendix IV of Directive 94/9/EC

CERTIFICATION



N° QUAL/1994/2021c

ATX SA

CONCEPTION, DEVELOPPEMENT, PRODUCTION ET COMMERCIALISATION DE MATERIELS ELECTRIQUES DE SECURITE POUR ATMOSPHERES EXPLOSIBLES.

DESIGN, DEVELOPMENT, PRODUCTION, MARKETING AND SALES OF SAFETY ELECTRICAL APPARATUS FOR POTENTIALLY EXPLOSIVE ATMOSPHERES.

Avenue Durouchet F-80022 AMIENS
Rue A. Durouchet ZI Nord BP 78 F-80082 AMIENS CEDEX 2

AFAQ certifie que pour les activités et les sites référencés ci-dessous toutes les dispositions mises en oeuvre pour répondre aux exigences imposées par la norme internationale AFAQ certifies that all the arrangements covering the above mentioned activities and locations are established to meet the requirements of the international standard.



ISO 9001 : 2000
ont été examinées et jugées conformes.
have been examined and found conform.

2002-07-11
2005-08-04

Le Président de Comité de Certification
The President of the Certification Committee
A. PIGEONNIER

Le Directeur Général (LCIE)
The Managing Director of LCIE
O. PEYRAT

Le Représentant de l'Entreprise
The Representative of the Firm
E. THICKETT

NOTIFICATION DE L'ÉVALUATION RELATIVE À LA QUALITÉ DE PRODUCTION

(1) **NOTIFICATION DE L'ÉVALUATION RELATIVE À LA QUALITÉ DE PRODUCTION** (1) **PRODUCTION QUALITY ASSESSMENT NOTIFICATION**

(2) **Équipement ou système de protection ou composant destiné à Directive 94/9/CE** (2) **Equipment or Protective System or Component Intended for use in Potentially explosive atmospheres Directive 94/9/EC**

(3) **Numéro de notification LCIE 02 ATEX Q 8019** (3) **Notification number LCIE 02 ATEX Q 8019**

(4) **Équipement ou système de protection ou composant tel qu'équipage** (4) **Equipment or Protective system or Component as listed:**

(5) **Demandeur : Société A.T.X. Rue A. Durouchet Z.I. - BP 78 80082 AMIENS CEDEX 02 FRANCE** (5) **Applicant : Société A.T.X. Rue A. Durouchet Z.I. - BP 78 80082 AMIENS CEDEX 02 France**

(6) **Fabricant : Société A.T.X. Z.I. - BP 78 80082 AMIENS CEDEX 02 FRANCE** (6) **Manufacturer : Société A.T.X. Z.I. - BP 78 80082 AMIENS CEDEX 02 France**

(7) **La LCIE, organisme notifié sous la référence 0081 pour l'annexe IV conformément à l'article 9 de la directive 94/9/CE du Parlement européen et du Conseil du 23 mars 1994, notifie au demandeur que le fabricant a un système d'assurance qualité de production qui satisfait à l'annexe IV de la directive** (7) **LCIE, notified body number 0081 for annex IV in accordance with article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, notifies to the applicant that the manufacturer has a production quality system which complies to annex IV of the Directive**


(8) **Le système d'assurance qualité de production garantit le conformité de l'équipement ou du système de protection ou du composant (pour les types décrits) en annexe.** (8) **The Production Quality Assurance guarantees conformity of the equipment or protective system or component with the type(s) described in the Schedule.**

(9) **Cette notification, valable jusqu'au 31 septembre 2005, est fondée sur le rapport d'audit N° 60002106.** (9) **This notification, valid until 31st of September 2005, is based upon audit report No 60002106.**

Les résultats des réévaluations périodiques du système qualité font partie de cette notification.

Fontenay-aux-Roses, le 10 janvier 2003 Le Directeur de l'organisme certificateur
Manager of the certification body
Marc CILLIAUX
Titulaire agréé par l'Etat

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DECLARATION DE CONFORMITE
DECLARATION OF CONFORMITY

N° 50201-11

29, avenue de Bobigny BP 21
93136 Noisy le Sec - France

Nous déclarons que les appareils destinés à être mis sur le marché afin d'être utilisés en atmosphères explosibles, désignés ci-après :

LUMINAIRE type F1e Pour Gaz / For Gas : CE 0081 II 2 G
lighting fixture EEX ed outor adm II C - T (voir annexe)
(in part version NSI for emergency version)

T° ambiante / ambient T° : -20° C ≤ T ≤ +55° C
Pour sous-système / For Ducts : CE 00819 II 2 D - T = 85° C

Indices de protection / Protection Index : IP 66/67

satisfait / safety : - aux dispositions de la directive 94/9/CE / in accordance with the provisions of directive 94/9 EC

- aux normes / standards : EN 5004 (1992)
EN 50018 (1994)
EN 50019 (1994)
EN 50029 (1987)
EN 50031-1 (2000)

- aux variantes issues du type, et représentatives de la gamme ayant fait l'objet de l'attestation d'examen CE de type N° 98 ATEX 0004-06 (conformément à l'annexe III) et notification de l'évaluation du système qualité n° 02 ATEX Q8019 (conformément à l'annexe IV) délivrés par la LCIE

- aux dispositions de la directive 89/336, "COMPATIBILITE ELECTROMAGNETIQUE", modifiée par les directives 92/31 CEE/92/31 EEC, par la conformité aux spécifications suivantes :
the provisions of directive 89/336, "ELECTROMAGNETIC COMPATIBILITY", modified by directives 92/31 EEC and 92/31 EEC in accordance with the following specifications :
EN 55015 (1996) article 4.3.1
EN 61547 (1995)

au chapitre premier, article 2 de la directive 94/9 CE, par la conformité aux spécifications suivantes :
the chapter first, clause 2 in directive 94/9 EC, in accordance with the following specifications :
EN 60598-1 (1996)
EN 60529 (1991)

sous réserve qu'une utilisation conforme à leur destination et/ou d'une installation conforme aux normes en vigueur et/ou aux recommandations du constructeur.
subject to use for the purpose for which they were designed and/or installed in accordance with standards in force and/or with the manufacturer's recommendations.

Le produit désigné a été conçu, fabriqué et contrôlé dans le cadre d'un système d'assurance qualité certifié conforme à :
The said product has been designed, manufactured and controlled within the guidelines of a quality assurance system which is certified to be conform with :
EN ISO 9001 (2000)

par l'Association Française pour l'Assurance de la Qualité (A.F.A.Q.) / by the Association Française pour l'Assurance de la Qualité (A.F.A.Q.)
Certifié n° 1 / Certificate n° 1994-0201c
Date d'obtention / Date of Issue : 11/07/2002
Site / Plant : Noisy / Amiens

Amiens, le 03 mars 2003

Année d'apposition du marquage CE : 1999
Year of affixing CE marking :

JC MARECHAL
 Resp. Qualité Sécurité et Environnement
 Quality, Security and Environment Manager

L'organisme notifié chargé de la surveillance est : / The notified body responsible for monitoring is :
LCIE, n° 081 (certification 0081) - S.P. - F-80082 Fontenay-aux-Roses Cedex

Téléphone : (+33) 03 22 54 27 54 Fax : (+33) 03 22 54 27 59 AFB380D

DECLARATION DE CONFORMITE
DECLARATION OF CONFORMITY

N° 50201-11

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CLASSES DE TEMPERATURE
T° class

Modèle / Model	Ta=40°C (éclairage vers le bas)	Ta=40°C (toutes positions)	Ta=55°C (toutes positions)
16 W	T 5	T 4	T 4
36 W	T 5	T 4	T 4
16 W NS	T 5	T 4	T 4
36 W NS	T 5	T 4	/

Téléphone : (+33) 03 22 54 27 54 Fax : (+33) 03 22 54 27 59 AFB380D

Certificates available on the Web see : www.egsatx.com

List of certificates of conformity (continued)

Cat. No.	Certified type	CE declaration	CENELEC no.	IEC no.	Cat. No.	Certified type	CE declaration	CENELEC no.	IEC no.
093508	CF2D	50229	02 ATEX 6057X	Ex 02.006X	094406	PCX16d	50243	02 ATEX 6234	Ex 02.030
093509	CF2D	50229	02 ATEX 6057X	Ex 02.006X	094415	PCX16d	50243	02 ATEX 6234	Ex 02.030
093510	CF2D	50229	02 ATEX 6057X	Ex 02.006X	094416	PCX16d	50243	02 ATEX 6234	Ex 02.030
093511	CF	50229	02 ATEX 6057X	Ex 02.006X	094419	PCX32d	50258	03 ATEX 6134X	Ex 03.021X
093512	CF	50229	02 ATEX 6057X	Ex 02.006X	094420	PCX32d	50258	03 ATEX 6134X	Ex 03.021X
093513	CF	50229	02 ATEX 6057X	Ex 02.006X	094421	PCX32d	50258	03 ATEX 6134X	Ex 03.021X
093514	CF	50229	02 ATEX 6057X	Ex 02.006X	094422	PCX80d	50262	03 ATEX 6149X	Ex 03.024X
093515	CF	50229	02 ATEX 6057X	Ex 02.006X	094424	PCX125d	50263	03 ATEX 6148X	Ex 03.023X
093516	CF	50229	02 ATEX 6057X	Ex 02.006X	094425	PCXd/EN	5C227	03 ATEX 0022U	Ex 03.029U
093517	CF	50229	02 ATEX 6057X	Ex 02.006X	094426	PCXd/EN	5C227	03 ATEX 0022U	Ex 03.029U
093518	CF	50229	02 ATEX 6057X	Ex 02.006X	094427	PCXd/EN	5C227	03 ATEX 0022U	Ex 03.029U
093519	CF	50229	02 ATEX 6057X	Ex 02.006X	094428	PCXd/EN	5C227	03 ATEX 0022U	Ex 03.029U
093520	CF	50229	02 ATEX 6057X	Ex 02.006X	094429	PCXd/EN	5C227	03 ATEX 0022U	Ex 03.029U
093526	BR1d	50230	02 ATEX 6056	Ex 02.005	094430	PCXd/EN	5C227	03 ATEX 0022U	Ex 03.029U
093527	BR1d	50230	02 ATEX 6056	Ex 02.005	094432	CF1D	50257	03 ATEX 6044X	Ex 03.003X
093528	BR1d	50230	02 ATEX 6056	Ex 02.005	094433	CF1D	50257	03 ATEX 6044X	Ex 03.003X
093529	BR1d	50230	02 ATEX 6056	Ex 02.005	094438	PCX16d	50243	02 ATEX 6234	Ex 02.030
093530	BR1d	50230	02 ATEX 6056	Ex 02.005	094460	PCX16d	50243	02 ATEX 6234	Ex 02.030
093531	BR1d	50230	02 ATEX 6056	Ex 02.005	094463	PCX16d	50243	02 ATEX 6234	Ex 02.030
093544	CF1E	50257	03 ATEX 6044X	Ex 03.003X	094467	PCX16d	50243	02 ATEX 6234	Ex 02.030
093545	CF1E	50257	03 ATEX 6044X	Ex 03.003X	094468	PCX16d	50243	02 ATEX 6234	Ex 02.030
093546	CF1E	50257	03 ATEX 6044X	Ex 03.003X	094480	PCX32d	50258	03 ATEX 6134X	Ex 03.021X
093548	CF10B	50229	02 ATEX 6057X	Ex 02.006X	094545	FLe	50201	98 ATEX 6004	Ex 98.012
093805	BR1d	50230	02 ATEX 6056	Ex 02.005	094667	PCX80d	50262	03 ATEX 6149X	Ex 03.024X
093807	BR1d	50230	02 ATEX 6056	Ex 02.005	094693	PCX125d	50263	03 ATEX 6148X	Ex 03.023X
093818	BR1d	50230	02 ATEX 6056	Ex 02.005	094708	HBOd	50234	02 ATEX 6162	Ex 02.013
093880	BR1d	50230	02 ATEX 6056	Ex 02.005	094709	HBOd	50234	02 ATEX 6162	Ex 02.013
093881	BR1d	50230	02 ATEX 6056	Ex 02.005	094712	HBOd	50234	02 ATEX 6162	Ex 02.013
093885	BR1d	50230	02 ATEX 6056	Ex 02.005	094716	FLd	50203	97 ATEX 6012	Ex 03.012
093887	BR1d	50230	02 ATEX 6056	Ex 02.005	094717	FLd	50203	97 ATEX 6012	Ex 03.012
093890	BR1d	50230	02 ATEX 6056	Ex 02.005	094718	FLd	50203	97 ATEX 6012	Ex 03.012
093891	CF2D	50254	03 ATEX 6061X	Ex 03.006X	094720	LT2d	50246	02 ATEX 6165	Ex 02.017
093903	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094721	LT2d	50246	02 ATEX 6165	Ex 02.017
093904	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094722	LT2d	50246	02 ATEX 6165	Ex 02.017
093913	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094723	LT2d	50246	02 ATEX 6165	Ex 02.017
093914	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094724	LT2d	50246	02 ATEX 6165	Ex 02.017
093915	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094725	LT2d	50246	02 ATEX 6165	Ex 02.017
093916	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094726	LT2d	50246	02 ATEX 6165	Ex 02.017
093917	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094730	FLd	50203	97 ATEX 6012	Ex 03.012
093918	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094731	FLd	50203	97 ATEX 6012	Ex 03.012
093919	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094732	FLd	50203	97 ATEX 6012	Ex 03.012
093920	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094733	FLd	50203	97 ATEX 6012	Ex 03.012
093921	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094734	FLd	50203	97 ATEX 6012	Ex 03.012
093922	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094736	AB14	50231	02 ATEX 6053	Ex 02.004
093925	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094737	AB14	50231	02 ATEX 6053	Ex 02.004
093926	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094738	AB14	50231	02 ATEX 6053	Ex 02.004
093927	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094740	HRC20WH	50260	03 ATEX 6110	/
093928	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094741	HRC 50	50261	03 ATEX 6109	/
093929	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094747	HRCd	50241	02 ATEX 6232	Ex 02.028
093930	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094748	BRI40	50252	03 ATEX 6063X	Ex 03.009X
093931	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094749	BRI40	50252	03 ATEX 6063X	Ex 03.009X
093932	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094754	HBRd	50242	02 ATEX 6163	Ex 02.014
093933	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094792	BLd	50240	02 ATEX 6164	Ex 02.015
093934	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094795	BLd8	50265	03 ATEX 6190	Ex 03.033
093935	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094797	BLd8	50265	03 ATEX 6190	Ex 03.033
093936	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094800	FLd	50203	97 ATEX 6012	Ex 03.012
093937	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094801	FLd	50203	97 ATEX 6012	Ex 03.012
093938	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094802	FLd	50203	97 ATEX 6012	Ex 03.012
093939	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094804	FLd	50203	97 ATEX 6012	Ex 03.012
093940	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094805	FLd	50203	97 ATEX 6012	Ex 03.012
093941	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094806	FLd	50203	97 ATEX 6012	Ex 03.012
093942	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094807	FLd	50203	97 ATEX 6012	Ex 03.012
093943	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094808	FLd	50203	97 ATEX 6012	Ex 03.012
093944	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094809	FLd	50203	97 ATEX 6012	Ex 03.012
093945	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094810	FLd	50203	97 ATEX 6012	Ex 03.012
093946	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094811	FLd	50203	97 ATEX 6012	Ex 03.012
093947	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094812	FLd	50203	97 ATEX 6012	Ex 03.012
093948	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094813	FLd	50203	97 ATEX 6012	Ex 03.012
093949	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094815	FLd	50203	97 ATEX 6012	Ex 03.012
093950	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094816	FLd	50203	97 ATEX 6012	Ex 03.012
093951	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094817	FLd	50203	97 ATEX 6012	Ex 03.012
093952	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094818	FLd	50203	97 ATEX 6012	Ex 03.012
093953	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094819	FLd	50203	97 ATEX 6012	Ex 03.012
093954	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094820	FLd	50203	97 ATEX 6012	Ex 03.012
093956	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094821	FLd	50203	97 ATEX 6012	Ex 03.012
093957	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094822	FLd	50203	97 ATEX 6012	Ex 03.012
093990	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094823	FLd	50203	97 ATEX 6012	Ex 03.012
093991	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094824	FLd	50203	97 ATEX 6012	Ex 03.012
093992	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094825	FLd	50203	97 ATEX 6012	Ex 03.012
093993	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094826	FLd	50203	97 ATEX 6012	Ex 03.012
094007	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094827	FLd	50203	97 ATEX 6012	Ex 03.012
094008	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094828	FLd	50203	97 ATEX 6012	Ex 03.012
094012	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094829	FLd	50203	97 ATEX 6012	Ex 03.012
094013	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094830	FLd	50203	97 ATEX 6012	Ex 03.012
094064	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094831	FLd	50203	97 ATEX 6012	Ex 03.012
094065	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094852	FLd	50203	97 ATEX 6012	Ex 03.012
094066	TCD	5C213	02 ATEX 0036U	Ex 02.026U	094854	FLd	50203	97 ATEX 6012	Ex 03.012
094098	ACC	5C217	03 ATEX 0020U	Ex 03.022U	094855	FLd	50203	97 ATEX 6012	Ex 03.012
094403	PCX16d	50243	02 ATEX 6234	Ex 02.030	094857	FLd	50203	97 ATEX 6012	Ex 03.012
094404	PCX16d	50243	02 ATEX 6234	Ex 02.030	094859	FLd	50203	97 ATEX 6012	Ex 03.012

Cat. No.	Certified type	CE declaration	CENELEC no.	IEC no.	Cat. No.	Certified type	CE declaration	CENELEC no.	IEC no.
094955	Fld	50203	97 ATEX 6012	Ex 03.012	095122	LT1d	50246	02 ATEX 6165	Ex 02.017
094956	Fld	50203	97 ATEX 6012	Ex 03.012	095123	LT1d	50246	02 ATEX 6165	Ex 02.017
094958	Fld	50203	97 ATEX 6012	Ex 03.012	095124	LT1d	50246	02 ATEX 6165	Ex 02.017
094959	Fld	50203	97 ATEX 6012	Ex 03.012	095125	LT1d	50246	02 ATEX 6165	Ex 02.017
094961	Fld	50203	97 ATEX 6012	Ex 03.012	095126	AB14	50231	02 ATEX 6053	Ex 02.004
094962	Fld	50203	97 ATEX 6012	Ex 03.012	095127	AB14	50231	02 ATEX 6053	Ex 02.004
094965	Fld	50203	97 ATEX 6012	Ex 03.012	095128	AB14	50231	02 ATEX 6053	Ex 02.004
094966	Fld	50203	97 ATEX 6012	Ex 03.012	095129	AB14	50231	02 ATEX 6053	Ex 02.004
094967	Fld	50203	97 ATEX 6012	Ex 03.012	095130	CAM	50255	03 ATEX 6080	Ex 03.014
094971	Fld	50203	97 ATEX 6012	Ex 03.012	095131	CAM	50255	03 ATEX 6080	Ex 03.014
094972	Fld	50203	97 ATEX 6012	Ex 03.012	095132	Ln	50217	03 ATEX 6071	Ex 03.017
094973	Fld	50203	97 ATEX 6012	Ex 03.012	095133	Ln	50217	03 ATEX 6071	Ex 03.017
094974	Fld	50203	97 ATEX 6012	Ex 03.012	095134	Ln	50217	03 ATEX 6071	Ex 03.017
095000	LT1d	50246	02 ATEX 6165	Ex 02.017	095135	Ln	50217	03 ATEX 6071	Ex 03.017
950001	LT1d	50246	02 ATEX 6165	Ex 02.017	095136	Ln	50217	03 ATEX 6071	Ex 03.017
095003	LT1d	50246	02 ATEX 6165	Ex 02.017	095137	Ln	50217	03 ATEX 6071	Ex 03.017
095004	LT1d	50246	02 ATEX 6165	Ex 02.017	095138	Ln	50217	03 ATEX 6071	Ex 03.017
095005	LT1d	50246	02 ATEX 6165	Ex 02.017	095139	Ln	50217	03 ATEX 6071	Ex 03.017
095010	LT1d	50246	02 ATEX 6165	Ex 02.017	095140	Ln	50217	03 ATEX 6071	Ex 03.017
095011	LT1d	50246	02 ATEX 6165	Ex 02.017	095141	Ln	50217	03 ATEX 6071	Ex 03.017
095013	LT1d	50246	02 ATEX 6165	Ex 02.017	095142	Ln	50217	03 ATEX 6071	Ex 03.017
095017	LT2d	50246	02 ATEX 6165	Ex 02.017	095143	Ln	50217	03 ATEX 6071	Ex 03.017
095018	LT2d	50246	02 ATEX 6165	Ex 02.017	095144	Ln	50217	03 ATEX 6071	Ex 03.017
095019	LT2d	50246	02 ATEX 6165	Ex 02.017	095145	Ln	50217	03 ATEX 6071	Ex 03.017
095020	LT2d	50246	02 ATEX 6165	Ex 02.017	095146	Ln	50217	03 ATEX 6071	Ex 03.017
095021	LT2d	50246	02 ATEX 6165	Ex 02.017	095147	Ln	50217	03 ATEX 6071	Ex 03.017
095023	LT2d	50246	02 ATEX 6165	Ex 02.017	095148	Ln	50217	03 ATEX 6071	Ex 03.017
095024	LT2d	50246	02 ATEX 6165	Ex 02.017	095149	PJ70	50239	02 ATEX 6227	Ex 02.020
095025	LT2d	50246	02 ATEX 6165	Ex 02.017	095150	PJ70	50239	02 ATEX 6227	Ex 02.020
095026	LT2d	50246	02 ATEX 6165	Ex 02.017	095153	PJ70	50239	02 ATEX 6227	Ex 02.020
095029	Ln	50217	03 ATEX 6071	Ex 03.017	095155	PJd	50207	99 ATEX 6002	Ex 99.002
095030	Ln	50217	03 ATEX 6071	Ex 03.017	095156	PJd	50207	99 ATEX 6002	Ex 99.002
095031	Ln	50217	03 ATEX 6071	Ex 03.017	095157	PJd	50207	99 ATEX 6002	Ex 99.002
095032	Ln	50217	03 ATEX 6071	Ex 03.017	095158	PJd	50207	99 ATEX 6002	Ex 99.002
095033	PJn	50215	03 ATEX 6070	Ex 03.016	095159	PJd	50207	99 ATEX 6002	Ex 99.002
	PJp	50251	02 ATEX 6067	/	095160	PJd	50207	99 ATEX 6002	Ex 99.002
095034	Ln	50217	03 ATEX 6071	Ex 03.017	095161	PJd	50207	99 ATEX 6002	Ex 99.002
095036	PJn	50215	03 ATEX 6070	Ex 03.016	095162	PJd	50207	99 ATEX 6002	Ex 99.002
	PJp	50251	02 ATEX 6067	/	095163	PJd	50207	99 ATEX 6002	Ex 99.002
095037	PJn	50215	03 ATEX 6070	Ex 03.016	095165	PJd	50207	99 ATEX 6002	Ex 99.002
	PJp	50251	02 ATEX 6067	/	095166	PJd	50207	99 ATEX 6002	Ex 99.002
095040	Ln	50217	03 ATEX 6071	Ex 03.017	095167	PJd	50207	99 ATEX 6002	Ex 99.002
095041	Ln	50217	03 ATEX 6071	Ex 03.017	095168	PJd	50207	99 ATEX 6002	Ex 99.002
095042	PJn	50215	03 ATEX 6070	Ex 03.016	095169	PJd	50207	99 ATEX 6002	Ex 99.002
095043	PJn	50215	03 ATEX 6070	Ex 03.016	095173	PJd	50207	99 ATEX 6002	Ex 99.002
095044	PJn	50215	03 ATEX 6070	Ex 03.016	095177	PJd	50207	99 ATEX 6002	Ex 99.002
095045	PJn	50215	03 ATEX 6070	Ex 03.016	095179	PJd	50207	99 ATEX 6002	Ex 99.002
095046	PJn	50215	03 ATEX 6070	Ex 03.016	095184	PJd	50207	99 ATEX 6002	Ex 99.002
095047	PJn	50215	03 ATEX 6070	Ex 03.016	095215	Ln	50217	03 ATEX 6071	Ex 03.017
095048	PJ70	50239	02 ATEX 6227	Ex 02.020	095216	Ln	50217	03 ATEX 6071	Ex 03.017
095050	Ln	50217	03 ATEX 6071	Ex 03.017	095217	Ln	50217	03 ATEX 6071	Ex 03.017
095051	Ln	50217	03 ATEX 6071	Ex 03.017	095218	Ln	50217	03 ATEX 6071	Ex 03.017
095052	Ln	50217	03 ATEX 6071	Ex 03.017	095219	Ln	50217	03 ATEX 6071	Ex 03.017
095054	Ln	50217	03 ATEX 6071	Ex 03.017	095220	Ln	50217	03 ATEX 6071	Ex 03.017
095059	Ln	50217	03 ATEX 6071	Ex 03.017	095221	Ln	50217	03 ATEX 6071	Ex 03.017
095060	Ln	50217	03 ATEX 6071	Ex 03.017	095222	Ln	50217	03 ATEX 6071	Ex 03.017
095061	Ln	50217	03 ATEX 6071	Ex 03.017	095230	CRD	5C209	02 ATEX 0008U	Ex 02.012U
095062	Ln	50217	03 ATEX 6071	Ex 03.017	095231	CRD	5C209	02 ATEX 0008U	Ex 02.012U
095063	Ln	50217	03 ATEX 6071	Ex 03.017	095241	Ln	50217	03 ATEX 6071	Ex 03.017
095064	Ln	50217	03 ATEX 6071	Ex 03.017	095242	Ln	50217	03 ATEX 6071	Ex 03.017
095065	Ln	50217	03 ATEX 6071	Ex 03.017	095243	Ln	50217	03 ATEX 6071	Ex 03.017
095066	Ln	50217	03 ATEX 6071	Ex 03.017	095244	Ln	50217	03 ATEX 6071	Ex 03.017
095067	Ln	50217	03 ATEX 6071	Ex 03.017	095245	Ln	50217	03 ATEX 6071	Ex 03.017
095068	Ln	50217	03 ATEX 6071	Ex 03.017	095246	Ln	50217	03 ATEX 6071	Ex 03.017
095069	Ln	50217	03 ATEX 6071	Ex 03.017	095247	Ln	50217	03 ATEX 6071	Ex 03.017
095075	LT2d	50246	02 ATEX 6165	Ex 02.017	095248	Ln	50217	03 ATEX 6071	Ex 03.017
095088	PJP	50251	02 ATEX 6067	/	095249	Ln	50217	03 ATEX 6071	Ex 03.017
095094	PJP	50251	02 ATEX 6067	/	095251	Ln	50217	03 ATEX 6071	Ex 03.017
095095	PJP	50251	02 ATEX 6067	/	095252	Ln	50217	03 ATEX 6071	Ex 03.017
095096	PJP	50251	02 ATEX 6067	/	095255	Ln	50217	03 ATEX 6071	Ex 03.017
095097	PJP	50251	02 ATEX 6067	/	095256	Ln	50217	03 ATEX 6071	Ex 03.017
095098	PJP	50251	02 ATEX 6067	/	095257	Ln	50217	03 ATEX 6071	Ex 03.017
095100	TCH2	50238	02 ATEX 6229	Ex 02.024	095258	Ln	50217	03 ATEX 6071	Ex 03.017
095102	TCH1	50259	03 ATEX 6064	Ex 03.010	095259	Ln	50217	03 ATEX 6071	Ex 03.017
095103	TCH1	50259	03 ATEX 6064	Ex 03.010	095260	Ln	50217	03 ATEX 6071	Ex 03.017
095105	TCH1	50259	03 ATEX 6064	Ex 03.010	095261	Ln	50217	03 ATEX 6071	Ex 03.017
095108	KL1-X	50216	00 ATEX 6018	Ex 00.013	095262	Ln	50217	03 ATEX 6071	Ex 03.017
095109	KL1-X	50216	00 ATEX 6018	Ex 00.013	095264	Ln	50217	03 ATEX 6071	Ex 03.017
095110	SIR 1	50253	03 ATEX 6081	Ex 03.015	095265	Ln	50217	03 ATEX 6071	Ex 03.017
095111	SIR 1	50253	03 ATEX 6081	Ex 03.015	095266	Ln	50217	03 ATEX 6071	Ex 03.017
095113	KL1-X	50216	00 ATEX 6018	Ex 00.013	095267	Ln	50217	03 ATEX 6071	Ex 03.017
095114	LT1d	50246	02 ATEX 6165	Ex 02.017	095268	Ln	50217	03 ATEX 6071	Ex 03.017
095115	LT1d	50246	02 ATEX 6165	Ex 02.017	095269	Ln	50217	03 ATEX 6071	Ex 03.017
095116	LT1d	50246	02 ATEX 6165	Ex 02.017	095300	CF1F	50257	03 ATEX 6044X	Ex 03.003X
095117	LT1d	50246	02 ATEX 6165	Ex 02.017	095301	CF1B	50257	03 ATEX 6044X	Ex 03.003X
095118	LT1d	50246	02 ATEX 6165	Ex 02.017	095302	CF1C	50257	03 ATEX 6044X	Ex 03.003X
095119	LT1d	50246	02 ATEX 6165	Ex 02.017	095303	CF1A	50257	03 ATEX 6044X	Ex 03.003X
095120	LT1d	50246	02 ATEX 6165	Ex 02.017	095304	CF1D	50257	03 ATEX 6044X	Ex 03.003X
095121	LT1d	50246	02 ATEX 6165	Ex 02.017	095306	CF1E	50257	03 ATEX 6044X	Ex 03.003X
					095310	CF2C	50254	03 ATEX 6061X	Ex 03.006X

List of certificates of conformity (continued)

Cat. No.	Certified type	CE declaration	CENELEC no.	IEC no.	Cat. No.	Certified type	CE declaration	CENELEC no.	IEC no.
095311	CF2A	50254	03 ATEX 6061X	Ex 03.006X	095542	ECX2	50249	02 ATEX 6231X	Ex 02.027X
095313	CF2B	50254	03 ATEX 6061X	Ex 03.006X	095543	ECX2	50249	02 ATEX 6231X	Ex 02.027X
095323	CMS47	50236	02 ATEX 6247X	Ex 02.031X	095544	ECX2	50249	02 ATEX 6231X	Ex 02.027X
095324	CMS43	50236	02 ATEX 6247X	Ex 02.031X	095545	ECX2	50249	02 ATEX 6231X	Ex 02.027X
095325	CMS46	50236	02 ATEX 6247X	Ex 02.031X	095546	ECX2	50249	02 ATEX 6231X	Ex 02.027X
095326	CMS44	50236	02 ATEX 6247X	Ex 02.031X	095547	ECX2	50249	02 ATEX 6231X	Ex 02.027X
095327	CMS40	50236	02 ATEX 6247X	Ex 02.031X	095560	ECX2	50249	02 ATEX 6231X	Ex 02.027X
095328	CMS42	50236	02 ATEX 6247X	Ex 02.031X	095561	ECX2	50249	02 ATEX 6231X	Ex 02.027X
095329	CMS45	50236	02 ATEX 6247X	Ex 02.031X	095562	ECX2	50249	02 ATEX 6231X	Ex 02.027X
095330	CMS41	50236	02 ATEX 6247X	Ex 02.031X	095563	ECX2	50249	02 ATEX 6231X	Ex 02.027X
095331	CMS57	50236	02 ATEX 6247X	Ex 02.031X	095564	ECX2	50249	02 ATEX 6231X	Ex 02.027X
095332	CMS52	50236	02 ATEX 6247X	Ex 02.031X	095565	ECX2	50249	02 ATEX 6231X	Ex 02.027X
095333	CMS55	50236	02 ATEX 6247X	Ex 02.031X	095566	ECX2	50249	02 ATEX 6231X	Ex 02.027X
095334	CMS53	50236	02 ATEX 6247X	Ex 02.031X	095570	ECMAR3	50245	02 ATEX 133741X	133893-1
095335	CMS50	50236	02 ATEX 6247X	Ex 02.031X	095571	ECMAR3	50245	02 ATEX 133741X	133893-1
095336	CMS54	50236	02 ATEX 6247X	Ex 02.031X	095572	ECMAR3	50245	02 ATEX 133741X	133893-1
095337	CMS56	50236	02 ATEX 6247X	Ex 02.031X	095573	ECMAR3	50245	02 ATEX 133741X	133893-1
095338	CMS51	50236	02 ATEX 6247X	Ex 02.031X	095574	ECMAR3	50245	02 ATEX 133741X	133893-1
095339	JBEW	50272	03 ATEX 6169X	Ex 03.035X	095575	ECMAR3	50245	02 ATEX 133741X	133893-1
095340	JBEW	50272	03 ATEX 6169X	Ex 03.035X	095576	ECMAR3	50245	02 ATEX 133741X	133893-1
095341	JBEW	50272	03 ATEX 6169X	Ex 03.035X	095577	ECMAR3	50245	02 ATEX 133741X	133893-1
095342	JBEW	50272	03 ATEX 6169X	Ex 03.035X	095578	ECMAR3	50245	02 ATEX 133741X	133893-1
095402	CF10C	50229	02 ATEX 6057X	Ex 02.006X	095579	ECMAR3	50245	02 ATEX 133741X	133893-1
095403	CF10B	50229	02 ATEX 6057X	Ex 02.006X	095580	ECMAR3	50245	02 ATEX 133741X	133893-1
095404	CF30C	50229	02 ATEX 6057X	Ex 02.006X	095581	ECMAR3	50245	02 ATEX 133741X	133893-1
095405	CF20B	50229	02 ATEX 6057X	Ex 02.006X	095582	ECMAR3	50245	02 ATEX 133741X	133893-1
095406	CF30B	50229	02 ATEX 6057X	Ex 02.006X	095583	ECMAR3	50245	02 ATEX 133741X	133893-1
095407	CF40B	50229	02 ATEX 6057X	Ex 02.006X	095584	ECMAR3	50245	02 ATEX 133741X	133893-1
095408	CF50C	50229	02 ATEX 6057X	Ex 02.006X	095600	EExE	50233	99 ATEX 6030X	/
095409	CF50B	50229	02 ATEX 6057X	Ex 02.006X	095601	EExE	50233	99 ATEX 6030X	/
095410	CF60B	50229	02 ATEX 6057X	Ex 02.006X	095602	EExE	50233	99 ATEX 6030X	/
095411	CF70C	50229	02 ATEX 6057X	Ex 02.006X	095603	EExE	50233	99 ATEX 6030X	/
095412	CF70B	50229	02 ATEX 6057X	Ex 02.006X	095604	EExE	50233	99 ATEX 6030X	/
095450	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095605	EExE	50233	99 ATEX 6030X	/
095451	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095606	EExE	50233	99 ATEX 6030X	/
095452	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095643	EExE	50233	99 ATEX 6030X	/
095453	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095680	ECMAR2	50249	02 ATEX 6231X	Ex 02.027X
095454	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095681	ECMAR2	50249	02 ATEX 6231X	Ex 02.027X
095455	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095682	ECMAR2	50249	02 ATEX 6231X	Ex 02.027X
095461	A.AD.B.R	5C233	98 ATEX 0001U	/	095683	ECMAR2	50249	02 ATEX 6231X	Ex 02.027X
095462	A.AD.B.R	5C233	98 ATEX 0001U	/	095684	ECMAR2	50249	02 ATEX 6231X	Ex 02.027X
095463	A.AD.B.R	5C233	98 ATEX 0001U	/	095686	ECMAR2	50249	02 ATEX 6231X	Ex 02.027X
095464	A.AD.B.R	5C233	98 ATEX 0001U	/	095687	E1WF-e	50267	01 ATEX 1271X	/
095465	A.AD.B.R	5C233	98 ATEX 0001U	/	095688	E1WF-e	50267	01 ATEX 1271X	/
095466	A.AD.B.R	5C233	98 ATEX 0001U	/	095714	BVe	5C218	03 ATEX 0011U	Ex 03.005U
095467	A.AD.B.R	5C233	98 ATEX 0001U	/	095715	BVe	5C218	03 ATEX 0011U	Ex 03.005U
095468	A.AD.B.R	5C233	98 ATEX 0001U	/	095728	EExE	50233	99 ATEX 6030X	/
095471	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095729	EExE	50233	99 ATEX 6030X	/
095475	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095743	ACC	5C217	03 ATEX 0020U	Ex 03.022U
095480	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095744	ACC	5C217	03 ATEX 0020U	Ex 03.022U
095481	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095748	BVe	5C218	03 ATEX 0011U	Ex 03.005U
095482	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095749	BVe	5C218	03 ATEX 0011U	Ex 03.005U
095483	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095750	BOU PC	50273	99 ATEX 6030X	/
095484	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095751	BVe	5C218	03 ATEX 0011U	Ex 03.005U
095485	BVe	5C218	03 ATEX 0011U	Ex 03.005U	095752	BVe	5C218	03 ATEX 0011U	Ex 03.005U
095486	BVe	5C218	03 ATEX 0011U	Ex 03.005U	095753	BVe	5C218	03 ATEX 0011U	Ex 03.005U
095487	BVe	5C218	03 ATEX 0011U	Ex 03.005U	095754	BOU PC	50273	99 ATEX 6030X	/
095488	BVe	5C218	03 ATEX 0011U	Ex 03.005U	095755	BOU PC	50273	99 ATEX 6030X	/
095489	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095756	EExE	50233	99 ATEX 6030X	/
095490	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095757	EExE	50233	99 ATEX 6030X	/
095491	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095758	EExE	50233	99 ATEX 6030X	/
095492	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095759	EExE	50233	99 ATEX 6030X	/
095493	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095760	BVe	5C218	03 ATEX 0011U	Ex 03.005U
095494	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095761	BVe	5C218	03 ATEX 0011U	Ex 03.005U
095495	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095762	BVe	5C218	03 ATEX 0011U	Ex 03.005U
095496	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095763	BVe	5C218	03 ATEX 0011U	Ex 03.005U
095497	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095764	BVe	5C218	03 ATEX 0011U	Ex 03.005U
095498	ACC	5C217	03 ATEX 0020U	Ex 03.022U	095765	BVe	5C218	03 ATEX 0011U	Ex 03.005U
095502	ECMA2	50249	02 ATEX 6231X	Ex 02.027X	095796	ACC	5C217	03 ATEX 0020U	Ex 03.022U
095512	ECMA2	50249	02 ATEX 6231X	Ex 02.027X	095798	ECId	50271	03 ATEX 6189X	Ex 03.032X
095513	ECMA2	50249	02 ATEX 6231X	Ex 02.027X	095800	EExE	50233	99 ATEX 6030X	/
095521	ECMA2	50249	02 ATEX 6231X	Ex 02.027X	095801	EExE	50233	99 ATEX 6030X	/
095522	ECMA2	50249	02 ATEX 6231X	Ex 02.027X	095802	EExE	50233	99 ATEX 6030X	/
095523	ECMA2	50249	02 ATEX 6231X	Ex 02.027X	095803	EExE	50233	99 ATEX 6030X	/
095524	ECMA2	50249	02 ATEX 6231X	Ex 02.027X	095804	EExE	50233	99 ATEX 6030X	/
095526	E1WF-e	50267	01 ATEX 1271X	/	095805	EExE	50233	99 ATEX 6030X	/
095527	E1WF-e	50267	01 ATEX 1271X	/	095850	HBe150	50244	02 ATEX 6228X	Ex 02.023X
095528	E1WF-e	50267	01 ATEX 1271X	/	095933	TSN/TSCN	5C222	03 ATEX 0021U	Ex 03.028U
095529	E1WF-e	50267	01 ATEX 1271X	/	095950	PcE	50221	00 ATEX 6047	Ex 00.017
095530	E1WF-e	50267	01 ATEX 1271X	/	095951	PcE	50221	00 ATEX 6047	Ex 00.017
095532	ECMA2	50249	02 ATEX 6231X	Ex 02.027X	095952	PcE	50221	00 ATEX 6047	Ex 00.017
095533	ECMA2	50249	02 ATEX 6231X	Ex 02.027X	095953	CAe	50235	02 ATEX 6248X	Ex 02.032X
095534	ECMA2	50249	02 ATEX 6231X	Ex 02.027X	095954	CAe	50235	02 ATEX 6248X	Ex 02.032X
095535	ECMA2	50249	02 ATEX 6231X	Ex 02.027X	095955	CAe	50235	02 ATEX 6248X	Ex 02.032X
095536	ECMA2	50249	02 ATEX 6231X	Ex 02.027X	095956	CAe	50235	02 ATEX 6248X	Ex 02.032X
095537	ECMA2	50249	02 ATEX 6231X	Ex 02.027X	095957	CAe	50235	02 ATEX 6248X	Ex 02.032X
095538	ECMA2	50249	02 ATEX 6231X	Ex 02.027X	095960	PcE	50221	00 ATEX 6047	Ex 00.017
095539	ECMA2	50249	02 ATEX 6231X	Ex 02.027X	095961	PcE	50221	00 ATEX 6047	Ex 00.017
095540	ECX2	50249	02 ATEX 6231X	Ex 02.027X	095962	PcE	50221	00 ATEX 6047	Ex 00.017
095541	ECX2	50249	02 ATEX 6231X	Ex 02.027X	095963	CAe	50235	02 ATEX 6248X	Ex 02.032X

Cat. No.	Certified type	CE declaration	CENELEC no.	IEC no.	Cat. No.	Certified type	CE declaration	CENELEC no.	IEC no.
095964	CAe	50235	02 ATEX 6248X	Ex 02.032X	096323	FLe	50201	98 ATEX 6004	Ex 98.012
095965	CAe	50235	02 ATEX 6248X	Ex 02.032X	096324	FLe	50201	98 ATEX 6004	Ex 98.012
095966	CAe	50235	02 ATEX 6248X	Ex 02.032X	096325	FLe	50201	98 ATEX 6004	Ex 98.012
095971	CAP	50264	03 ATEX 6188	Ex 03.031	096326	FLe	50201	98 ATEX 6004	Ex 98.012
095972	CAP	50264	03 ATEX 6188	Ex 03.031	096327	FLn	50212	03 ATEX 6072	Ex 03.018
095973	CAP	50264	03 ATEX 6188	Ex 03.031	096328	FLn	50212	03 ATEX 6072	Ex 03.018
095974	CAP	50264	03 ATEX 6188	Ex 03.031	096329	FLn	50212	03 ATEX 6072	Ex 03.018
095977	CAP	50264	03 ATEX 6188	Ex 03.031	096330	FLe	50201	98 ATEX 6004	Ex 98.012
095978	CAP	50264	03 ATEX 6188	Ex 03.031	096331	FLe	50201	98 ATEX 6004	Ex 98.012
095980	CAP	50224	01 ATEX 6049	Ex 01,003	096332	FLe	50201	98 ATEX 6004	Ex 98.012
095981	CAP	50224	01 ATEX 6049	Ex 01,003	096333	FLe	50201	98 ATEX 6004	Ex 98.012
095982	CAP	50224	01 ATEX 6049	Ex 01,003	096334	FLe	50201	98 ATEX 6004	Ex 98.012
095983	CAP	50224	01 ATEX 6049	Ex 01,003	096335	FLe	50201	98 ATEX 6004	Ex 98.012
095984	CAP	50224	01 ATEX 6049	Ex 01,003	096336	FLn	50212	03 ATEX 6072	Ex 03.018
095985	CAP	50224	01 ATEX 6049	Ex 01,003	096337	FLn	50212	03 ATEX 6072	Ex 03.018
095986	CAP	50224	01 ATEX 6049	Ex 01,003	096338	FLe	50201	98 ATEX 6004	Ex 98.012
095987	CAP	50224	01 ATEX 6049	Ex 01,003	096339	FLn	50212	03 ATEX 6072	Ex 03.018
095990	CAP	50224	01 ATEX 6049	Ex 01,003	096340	FLe	50201	98 ATEX 6004	Ex 98.012
095991	CAP	50224	01 ATEX 6049	Ex 01,003	096341	FLe	50201	98 ATEX 6004	Ex 98.012
095992	CAP	50224	01 ATEX 6049	Ex 01,003	096342	FLe	50201	98 ATEX 6004	Ex 98.012
095993	CAP	50224	01 ATEX 6049	Ex 01,003	096343	FLe	50201	98 ATEX 6004	Ex 98.012
095994	CAP	50224	01 ATEX 6049	Ex 01,003	096344	FLe	50201	98 ATEX 6004	Ex 98.012
095995	CAP	50224	01 ATEX 6049	Ex 01,003	096345	FLe	50201	98 ATEX 6004	Ex 98.012
095996	CAP	50224	01 ATEX 6049	Ex 01,003	096346	FLn	50212	03 ATEX 6072	Ex 03.018
096005	CAe	50235	02 ATEX 6248X	Ex 02.032X	096347	FLn	50212	03 ATEX 6072	Ex 03.018
096006	CAe	50235	02 ATEX 6248X	Ex 02.032X	096348	FLP	50227	02 ATEX 6067	/
096007	CAe	50235	02 ATEX 6248X	Ex 02.032X	096349	FLn	50212	03 ATEX 6072	Ex 03.018
096008	CAe	50235	02 ATEX 6248X	Ex 02.032X	096350	FLe	50201	98 ATEX 6004	Ex 98.012
096014	PCe	50221	00 ATEX 6047	Ex 00.017	096351	FLe	50201	98 ATEX 6004	Ex 98.012
096015	PCe	50221	00 ATEX 6047	Ex 00.017	096356	FLn-EM	50225	03 ATEX 6166	Ex 03.025
096016	PCe	50221	00 ATEX 6047	Ex 00.017	096357	FLn-EM	50225	03 ATEX 6166	Ex 03.025
096019	CAe	50235	02 ATEX 6248X	Ex 02.032X	096358	FLn-EM	50225	03 ATEX 6166	Ex 03.025
096026	CAe	50235	02 ATEX 6248X	Ex 02.032X	096363	FLe	50201	98 ATEX 6004	Ex 98.012
096027	CAe	50235	02 ATEX 6248X	Ex 02.032X	096364	FLe	50201	98 ATEX 6004	Ex 98.012
096028	CAe	50235	02 ATEX 6248X	Ex 02.032X	096367	FLe	50201	98 ATEX 6004	Ex 98.012
096029	CAe	50235	02 ATEX 6248X	Ex 02.032X	096369	FLe	50201	98 ATEX 6004	Ex 98.012
096031	PCe	50221	00 ATEX 6047	Ex 00.017	096370	FLe	50201	98 ATEX 6004	Ex 98.012
096032	PCe	50221	00 ATEX 6047	Ex 00.017	096371	FLe	50201	98 ATEX 6004	Ex 98.012
096033	PCe	50221	00 ATEX 6047	Ex 00.017	096372	FLe	50201	98 ATEX 6004	Ex 98.012
096101	BJe1	50226	02 ATEX 6069	Ex 02.008	096373	FLe	50201	98 ATEX 6004	Ex 98.012
096104	BJe1	50226	02 ATEX 6069	Ex 02.008	096374	FLe	50201	98 ATEX 6004	Ex 98.012
096105	BJe1	50226	02 ATEX 6069	Ex 02.008	096375	FLe	50201	98 ATEX 6004	Ex 98.012
096112	BJe2	50209	99 ATEX 6003	Ex 99.005	096376	PCe	50221	00 ATEX 6047	Ex 00.017
096113	BJe2	50209	99 ATEX 6003	Ex 99.005	096377	CAe	50235	02 ATEX 6248X	Ex 02.032X
096114	BJe2	50209	99 ATEX 6003	Ex 99.005	096380	FLe	50201	98 ATEX 6004	Ex 98.012
096117	BJe2	50209	99 ATEX 6003	Ex 99.005	096381	FLe	50201	98 ATEX 6004	Ex 98.012
096118	BJe2	50209	99 ATEX 6003	Ex 99.005	096383	FLe	50201	98 ATEX 6004	Ex 98.012
096119	BJe2	50209	99 ATEX 6003	Ex 99.005	096384	FLe	50201	98 ATEX 6004	Ex 98.012
096120	C48D	5C215	02 ATEX 0006U	Ex 02.019U	096385	FLe	50201	98 ATEX 6004	Ex 98.012
096181	8008/2...	5C224	00 ATEX 1111U	/	096385	FLe	50201	98 ATEX 6004	Ex 98.012
096182	8008/2...	5C224	00 ATEX 1111U	/	096386	FLP	50227	02 ATEX 6067	/
096207	CAP	50224	01 ATEX 6049	Ex 01,003	096390	FLe	50201	98 ATEX 6004	Ex 98.012
096209	CAP	50224	01 ATEX 6049	Ex 01,003	096391	FLe	50201	98 ATEX 6004	Ex 98.012
096216	PCe	50221	00 ATEX 6047	Ex 00.017	096392	FLe	50201	98 ATEX 6004	Ex 98.012
096217	PCe	50221	00 ATEX 6047	Ex 00.017	096393	FLe	50201	98 ATEX 6004	Ex 98.012
096220	CAP	50224	01 ATEX 6049	Ex 01,003	096394	FLe	50201	98 ATEX 6004	Ex 98.012
096221	CAP	50224	01 ATEX 6049	Ex 01,003	096395	FLe	50201	98 ATEX 6004	Ex 98.012
096222	CAP	50224	01 ATEX 6049	Ex 01,003	096396	FLP	50227	02 ATEX 6067	/
096228	PCe	50221	00 ATEX 6047	Ex 00.017	096397	FLP	50227	02 ATEX 6067	/
096229	PCe	50221	00 ATEX 6047	Ex 00.017	096398	FLP	5C207	02 ATEX 6067	/
096250	PCe	50221	00 ATEX 6047	Ex 00.017	096399	ENR16	50266	03 ATEX 6185	Ex 03.027
096251	PCe	50221	00 ATEX 6047	Ex 00.017	096465	CAe	50235	02 ATEX 6248X	Ex 02.032X
096260	IT63	5C204	99 ATEX 0001U	Ex 99.003U	096466	CAe	50235	02 ATEX 6248X	Ex 02.032X
096261	IT63	5C204	99 ATEX 0001U	Ex 99.003U	096471	CAe	50235	02 ATEX 6248X	Ex 02.032X
096262	PCe	50221	00 ATEX 6047	Ex 00.017	096472	CAe	50235	02 ATEX 6248X	Ex 02.032X
096263	PCe	50221	00 ATEX 6047	Ex 00.017	096473	CAe	50235	02 ATEX 6248X	Ex 02.032X
096264	CAe	50235	02 ATEX 6248X	Ex 02.032X	096474	CAe	50235	02 ATEX 6248X	Ex 02.032X
096269	IT63	5C204	99 ATEX 0001U	Ex 99.003U	096485	CAe	50235	02 ATEX 6248X	Ex 02.032X
096270	IT63	5C204	99 ATEX 0001U	Ex 99.003U	096486	CAe	50235	02 ATEX 6248X	Ex 02.032X
096271	IT160	5C205	99 ATEX 0003U	Ex 99.018U	096487	CAe	50235	02 ATEX 6248X	Ex 02.032X
096272	IT160	5C205	99 ATEX 0003U	Ex 99.018U	096488	CAe	50235	02 ATEX 6248X	Ex 02.032X
096282	PCe	50221	00 ATEX 6047	Ex 00.017	096489	CAe	50235	02 ATEX 6248X	Ex 02.032X
096283	PCe	50221	00 ATEX 6047	Ex 00.017	096490	CAe	50235	02 ATEX 6248X	Ex 02.032X
096298	CAP	50224	01 ATEX 6049	Ex 01,003	096491	CAe	50235	02 ATEX 6248X	Ex 02.032X
096299	FU 40	5C207	02 ATEX 0003U	Ex 02.021U	096492	CAe	50235	02 ATEX 6248X	Ex 02.032X
096304	CAP	50224	01 ATEX 6049	Ex 01,003	096493	CAe	50235	02 ATEX 6248X	Ex 02.032X
096305	CAP	50224	01 ATEX 6049	Ex 01,003	096495	CAe	50235	02 ATEX 6248X	Ex 02.032X
096307	FLe	50201	98 ATEX 6004	Ex 98.012	096497	AUX-e	5C221	03 ATEX 0012U	Ex 03.011U
096308	FLe	50201	98 ATEX 6004	Ex 98.012	096498	AUX-e	5C221	03 ATEX 0012U	Ex 03.011U
096309	FLe	50201	98 ATEX 6004	Ex 98.012	096501	FLe	50201	98 ATEX 6004	Ex 98.012
096310	FLe	50201	98 ATEX 6004	Ex 98.012	096515	FLe	50201	98 ATEX 6004	Ex 98.012
096312	FLe	50201	98 ATEX 6004	Ex 98.012	096517	FLP	50227	02 ATEX 6067	/
096313	CAP	50224	01 ATEX 6049	Ex 01,003	096518	FLe	50201	98 ATEX 6004	Ex 98.012
096316	CAP	50224	01 ATEX 6049	Ex 01,003	096522	FLe	50201	98 ATEX 6004	Ex 98.012
096317	FLe	50201	98 ATEX 6004	Ex 98.012	096523	FLe	50201	98 ATEX 6004	Ex 98.012
096318	FLe	50201	98 ATEX 6004	Ex 98.012	096525	FLe	50201	98 ATEX 6004	Ex 98.012
096319	FLe	50201	98 ATEX 6004	Ex 98.012	096526	FLe	50201	98 ATEX 6004	Ex 98.012
096320	FLe	50201	98 ATEX 6004	Ex 98.012	096531	FLe	50201	98 ATEX 6004	Ex 98.012
096321	FLe	50201	98 ATEX 6004	Ex 98.012	096532	FLe	50201	98 ATEX 6004	Ex 98.012
096322	FLe	50201	98 ATEX 6004	Ex 98.012	096533	FLe	50201	98 ATEX 6004	Ex 98.012

List of certificates of conformity (continued)

Cat. No.	Certified type	CE declaration	CENELEC no.	IEC no.	Cat. No.	Certified type	CE declaration	CENELEC no.	IEC no.
098336	AUX	5C206	00 ATEX 0002U	Ex 00.012U	098859	C48D	5C215	02 ATEX 0006U	Ex 02.019U
098337	AUX	5C206	00 ATEX 0002U	Ex 00.012U	098860	C48D	5C215	02 ATEX 0006U	Ex 02.019U
098338	AUX	5C206	00 ATEX 0002U	Ex 00.012U	300144	Efn	50213	03 ATEX 6074	Ex 03.020
098339	AUX	5C206	00 ATEX 0002U	Ex 00.012U	300145	Efn	50213	03 ATEX 6074	Ex 03.020
098421	07.333.1	5C220	99 ATEX 1043U	/	300146	Efn	50213	03 ATEX 6074	Ex 03.020
098422	07.333.1	5C220	99 ATEX 1043U	/	300147	Efn	50213	03 ATEX 6074	Ex 03.020
098423	07.333.1	5C220	99 ATEX 1043U	/	300148	Efn	50213	03 ATEX 6074	Ex 03.020
098424	07.333.1	5C220	99 ATEX 1043U	/	300149	Efn	50213	03 ATEX 6074	Ex 03.020
098425	07.333.1	5C220	99 ATEX 1043U	/	300235	Efn-EM	50219	03 ATEX 6073	Ex 03.019
098426	07.333.1	5C220	99 ATEX 1043U	/	300237	Efn-EM	50219	03 ATEX 6073	Ex 03.019
098427	07.333.1	5C220	99 ATEX 1043U	/	300238	Efn-EM	50219	03 ATEX 6073	Ex 03.019
098428	07.333.1	5C220	99 ATEX 1043U	/	300239	Efn-EM	50219	03 ATEX 6073	Ex 03.019
098429	07.333.1	5C220	99 ATEX 1043U	/	300245	Efn	50213	03 ATEX 6074	Ex 03.020
098430	07.333.1	5C220	99 ATEX 1043U	/	300246	Efn	50213	03 ATEX 6074	Ex 03.020
098431	07.333.1	5C220	99 ATEX 1043U	/	300247	Efn	50213	03 ATEX 6074	Ex 03.020
098432	07.333.1	5C220	99 ATEX 1043U	/	300248	Efn	50213	03 ATEX 6074	Ex 03.020
098433	07.333.1	5C220	99 ATEX 1043U	/	300249	Efn	50213	03 ATEX 6074	Ex 03.020
098501	AUX	5C206	00 ATEX 0002U	Ex 00.012U	500044	B&R	5C231	99 ATEX 034U	/
098600	PCe	50221	00 ATEX 6047	Ex 00.017	500045	B&R	5C231	99 ATEX 034U	/
098601	PCe	50221	00 ATEX 6047	Ex 00.017	500046	B&R	5C231	99 ATEX 034U	/
098602	PCe	50221	00 ATEX 6047	Ex 00.017	500047	B&R	5C231	99 ATEX 034U	/
098603	PCe	50221	00 ATEX 6047	Ex 00.017	500048	B&R	5C231	99 ATEX 034U	/
098604	PCe	50221	00 ATEX 6047	Ex 00.017	500049	B&R	5C231	99 ATEX 034U	/
098605	PCe	50221	00 ATEX 6047	Ex 00.017	500050	B&R	5C231	99 ATEX 034U	/
098606	PCe	50221	00 ATEX 6047	Ex 00.017	500051	B&R	5C231	99 ATEX 034U	/
098607	PCe	50221	00 ATEX 6047	Ex 00.017	500052	B&R	5C231	99 ATEX 034U	/
098608	PCe	50221	00 ATEX 6047	Ex 00.017	500053	B&R	5C231	99 ATEX 034U	/
098609	PCe	50221	00 ATEX 6047	Ex 00.017	500054	ELF	5C223	01 ATEX 104U	/
098610	PCe	50221	00 ATEX 6047	Ex 00.017	500055	ELF	5C223	01 ATEX 104U	/
098611	PCe	50221	00 ATEX 6047	Ex 00.017	500056	ELF	5C223	01 ATEX 104U	/
098612	PCe	50221	00 ATEX 6047	Ex 00.017	500057	ELF	5C223	01 ATEX 104U	/
098613	PCe	50221	00 ATEX 6047	Ex 00.017	500058	ELF	5C223	01 ATEX 104U	/
098614	PCe	50221	00 ATEX 6047	Ex 00.017	500059	ELF	5C223	01 ATEX 104U	/
098615	PCe	50221	00 ATEX 6047	Ex 00.017	500060	SPH	5C226	00 ATEX 048U	/
098616	PCe	50221	00 ATEX 6047	Ex 00.017	500061	SPH	5C226	00 ATEX 048U	/
098617	PCe	50221	00 ATEX 6047	Ex 00.017	500062	SPH	5C226	00 ATEX 048U	/
098618	PCe	50221	00 ATEX 6047	Ex 00.017	500063	SPH	5C226	00 ATEX 048U	/
098619	PCe	50221	00 ATEX 6047	Ex 00.017	500064	SPH	5C226	00 ATEX 048U	/
098620	PCe	50221	00 ATEX 6047	Ex 00.017	500065	SPH	5C226	00 ATEX 048U	/
098621	PCe	50221	00 ATEX 6047	Ex 00.017	500066	SPH	5C226	00 ATEX 048U	/
098622	PCe	50221	00 ATEX 6047	Ex 00.017	500067	SPH	5C226	00 ATEX 048U	/
098623	PCe	50221	00 ATEX 6047	Ex 00.017	500068	SPH	5C226	00 ATEX 048U	/
098624	PCe	50221	00 ATEX 6047	Ex 00.017	500069	SPH	5C226	00 ATEX 048U	/
098625	PCe	50221	00 ATEX 6047	Ex 00.017	500070	SPH	5C226	00 ATEX 048U	/
098626	PCe	50221	00 ATEX 6047	Ex 00.017	500071	SPH	5C226	00 ATEX 048U	/
098627	PCe	50221	00 ATEX 6047	Ex 00.017	500072	SPH	5C226	00 ATEX 048U	/
098628	PCe	50221	00 ATEX 6047	Ex 00.017	500073	SPH	5C226	00 ATEX 048U	/
098629	PCe	50221	00 ATEX 6047	Ex 00.017	500074	SPH	5C226	00 ATEX 048U	/
098700	JBe	50232	02 ATEX 6118X	Ex 02.010X	500075	SPH	5C226	00 ATEX 048U	/
098701	JBe	50232	02 ATEX 6118X	Ex 02.010X	500076	SPH	5C226	00 ATEX 048U	/
098702	JBe	50232	02 ATEX 6118X	Ex 02.010X	500077	SPH	5C226	00 ATEX 048U	/
098703	JBe	50232	02 ATEX 6118X	Ex 02.010X	500078	SPH	5C226	00 ATEX 048U	/
098704	JBe	50232	02 ATEX 6118X	Ex 02.010X	500079	SPH	5C226	00 ATEX 048U	/
098705	JBe	50232	02 ATEX 6118X	Ex 02.010X	500080	SPH	5C226	00 ATEX 048U	/
098706	PCe	50221	00 ATEX 6047	Ex 00.017	500081	SPH	5C226	00 ATEX 048U	/
098707	PCe	50221	00 ATEX 6047	Ex 00.017	500082	SPH	5C226	00 ATEX 048U	/
098708	PCe	50221	00 ATEX 6047	Ex 00.017	500083	SPH	5C226	00 ATEX 048U	/
098709	PCe	50221	00 ATEX 6047	Ex 00.017	500084	SPH	5C226	00 ATEX 048U	/
098710	PCe	50221	00 ATEX 6047	Ex 00.017	500085	SPH	5C226	00 ATEX 048U	/
098711	PCe	50221	00 ATEX 6047	Ex 00.017	500086	SPH	5C226	00 ATEX 048U	/
098712	PCe	50221	00 ATEX 6047	Ex 00.017	500087	SPH	5C226	00 ATEX 048U	/
098713	PCe	50221	00 ATEX 6047	Ex 00.017	500088	SPH	5C226	00 ATEX 048U	/
098714	PCe	50221	00 ATEX 6047	Ex 00.017	500089	SPH	5C226	00 ATEX 048U	/
098715	PCe	50221	00 ATEX 6047	Ex 00.017	500090	SPH	5C226	00 ATEX 048U	/
098716	PCe	50221	00 ATEX 6047	Ex 00.017	500091	SPH	5C226	00 ATEX 048U	/
098717	PCe	50221	00 ATEX 6047	Ex 00.017	500092	SPH	5C226	00 ATEX 048U	/
098718	PCe	50221	00 ATEX 6047	Ex 00.017	500093	SPH	5C226	00 ATEX 048U	/
098719	PCe	50221	00 ATEX 6047	Ex 00.017	500094	SPH	5C226	00 ATEX 048U	/
098720	PCe	50221	00 ATEX 6047	Ex 00.017	500095	SPH	5C226	00 ATEX 048U	/
098721	PCe	50221	00 ATEX 6047	Ex 00.017	500096	SPH	5C226	00 ATEX 048U	/
098821	07.333.1	5C220	99 ATEX 1043U	/	500097	SPH	5C226	00 ATEX 048U	/
098822	07.333.1	5C220	99 ATEX 1043U	/	500098	SPH	5C226	00 ATEX 048U	/
098823	07.333.1	5C220	99 ATEX 1043U	/	500142	160	50269	02 ATEX 2015X	/
098824	07.333.1	5C220	99 ATEX 1043U	/	500143	160	50269	02 ATEX 2015X	/
098825	07.333.1	5C220	99 ATEX 1043U	/	500144	160	50269	02 ATEX 2015X	/
098826	07.333.1	5C220	99 ATEX 1043U	/	500145	160	50269	02 ATEX 2015X	/
098827	07.333.1	5C220	99 ATEX 1043U	/	500146	EYS	50268	03 ATEX 085	/
098828	07.333.1	5C220	99 ATEX 1043U	/	500147	EYS	50268	03 ATEX 085	/
098829	07.333.1	5C220	99 ATEX 1043U	/	500148	EYS	50268	03 ATEX 085	/
098830	07.333.1	5C220	99 ATEX 1043U	/	500149	EYS	50268	03 ATEX 085	/
098831	07.333.1	5C220	99 ATEX 1043U	/	500150	EYS	50268	03 ATEX 085	/
098832	07.333.1	5C220	99 ATEX 1043U	/	500151	EYS	50268	03 ATEX 085	/
098850	C48D	5C215	02 ATEX 0006U	Ex 02.019U	500152	EYS	50268	03 ATEX 085	/
098851	AUX-e	5C221	03 ATEX 0012U	Ex 03.011U	500153	EYS	50268	03 ATEX 085	/
098853	8008/2	5C224	00 ATEX 1111U	/					
098854	8008/2	5C224	00 ATEX 1111U	/					
098855	8008/2	5C224	00 ATEX 1111U	/					
098856	C48D	5C215	02 ATEX 0006U	Ex 02.019U					
098857	C48D	5C215	02 ATEX 0006U	Ex 02.019U					
098858	C48D	5C215	02 ATEX 0006U	Ex 02.019U					

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List of ATX site references

Countries	Name of project and site	Spécificateurs	Investisseurs
Pays	Nom du projet et site	Prescripteurs	Investisseurs
ARGENTINE	ZACCO - ZINCO CASA THERMOVAL		IEE France PETROVAL
ALGERIE	AL BEAN - Hesse Messaoud El H - Hesse Messaoud OAF Kouba	SOFREGAZ SOFREGAZ SOFREGAZ KALIFE	SOFRATRACH SOFRATRACH Eip
ARABIE SAOUDITE	RAHMANIYE HADJAH SAH PRINCEPSAL SPRING	RENKIC - Pringal SIBEL	FINA INGOLA EIP
ARABIE SAOUDITE	EGG REFINERY - Bussan Area SHELL REFINERY - Bussan Area (Dock side) GULFAR - Bussan Area TOTAL ALGERIA - Neapoli Bussan Crude		EGG SHELL GULFAR TOTAL
AUTRICHE	ATOMIC - Austria OLINIFIC OIL - Italy Coast SIP AND BRIGATE'S OIL - Port Hubert GLASS PARTS - Padova ALABRENE - Port Brindisi CVA OLEFINA UNIT - Port Brindisi FERRICALE SPINICALS - Spingarda FOTO PAVER LINE - Bressanone/Boz	SANGIANG HEAVY INDUSTRIES - Korea BLIGN DANIEL BIP DGLIX ICA ICA A.C. HARRICKS FOTO	W.M.C. BIP DGLIX ICA ICA FOTO
BANGLADESH	EASTERN REFINERY - Chittagong SHEWAN TOMES & CO. - Chittagong		BERNARDI BERNARDI
BELGIUM	CUIRY DE NEMOURS - Mechelen FINA OLEFIN - Antwerpen FINA PRODUCE - Antwerpen KOPPELHOF - Bussan BENEFICHE NUTZ - CHANGA AGROPHOS - Liège FOURMONT LINE - Gem MONTAIGNE WATERFORD MONTAIGNE	DUPONT DE NEMOURS PIETER WIELER - Italy EIP EIP BENEFICHE NUTZ ALUMINUMS REPTI REDFIP JOHN BROWN ENG. & CONSTR. MONTAIGNE	DUPONT DE NEMOURS FINA OLEFIN EIP EIP BENEFICHE NUTZ CHANGA AMCO MONTAIGNE EURORENT
BULGARE	INNOVATION	TOTAL	
CONGO	Drilling Platform And Storage Niassa SONEL LINDALA	ELF AQUITANE PRODUCTION NOGNETI	ELF CONGO ELF CONGO
INDONÉSIE	UPP - SHREK	AGP	AGP

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