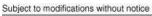


Specifications

| · | | | | | | | | | |
|---|---|-------------------|---|-------------------------|----------|--------------|--|--|--|
| Types | E11000X Rotary Switch Unit E11500X Junctic | | | | | n Box | | | |
| | | | | E1160XX Pushbutton Unit | | | | | |
| | E11300X Meter Ur | | E11700X Pilot Lamp Unit E118000 Photocell Unit | | | | | | |
| | E1140XX Signal La | amp | | | | ell Unit | | | |
| Hazardous Area | ATEX certificate nu | ımhar | IECE _V o | ertificate n | umbor | INIMETI | RO certificate number | | |
| E11000X Rotary Switch Unit | SIRA02ATEX1307 | | | IR 08.005 | | NCC 64 | | | |
| E1120XX Fuse Unit | SIRA02ATEX1308 | | | IR 08.005 | | NCC 63 | | | |
| E11300X Meter Unit | SIRA02ATEX1309 | | | IR 08.006 | | NCC 63 | | | |
| E1140XX Signal Lamp | SIRA02ATEX1310 | | | IR 08.006 | | NCC 64 | | | |
| E11500X Junction Box | SIRA02ATEX1311 | | | IR 08.006 | | NCC 63 | | | |
| E1160XX Pushbutton Unit | SIRA02ATEX1312 | | | IR 08.006 | | NCC 64 | | | |
| E11700X Pilot Lamp Unit | SIRA02ATEX1313 | | IECEx S | IR 08.006 | 4 | NCC 64 | 100/10 | | |
| E118000 Photocell Unit | SIRA02ATEX1314 | | IECEx S | IR 08.006 | 5 | NCC 63 | 399/10 | | |
| GOST certificate number | POCC DE.FE06.BO | 00997 | | | | | | | |
| INMETRO certificate number | | | | | | | | | |
| CE number | (€ 0102 | | | | | | | | |
| Certification coding for ATEX/IECEx | ⟨&⟩II 2 GD | Ex d IIC | T* Gh | | | | | | |
| | ~~ | Ex th IIIC T** Db | | | | | | | |
| Gas/dust temperature class | T6/T80℃ @ Ta+50 |)°C (al I tv‴ | nas avcant | E11500Y | lunction | Boy) | | | |
| Cas/dust temperature class | | | | | | | | | |
| | T5/T95℃ @ Ta+55℃ (all types except E11500X Junction Box) T6/T80℃ @ Ta+55℃ @ 10W MDP (E11500X Junctio n Box only) | | | | | | | | |
| | T5/T95°C @ Ta+50°C @ 15W MDP (E11500X Junctio n Box only) T4/T130°C @ Ta+55°C @ 15W MDP (E11500X Juncti on Box only) T4/T130°C @ Ta+55°C @ 20W MDP (E11500X Juncti on Box only) | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Minimum ambient temperature | -40℃ | | | | | | | | |
| Cable entry point maximum temperature | 70℃ | | | | | | | | |
| IP Rating | IP65 | | | | | | | | |
| Mechanical | | | | | | | | | |
| Material | Cast iron | | | | | | | | |
| Finish | Painted black | | | | | | | | |
| Cover screw torque | | | | | | | | | |
| Entry threadform | | | | | | | | | |
| E11500X Junction Box | 4xM20 one each on faces A,B,C&D | | | | | | | | |
| All other types | 2xM20 one each on faces A&B | | | | | | | | |
| Electrical | | | | | | | | | |
| E44000V Deveni Onitiali III 19 | Max voltage | Max curr | ent | MDP | | | al capacity | | |
| E11000X Rotary Switch Unit E1120XX Fuse Unit | 440VAC | 20W | | 10W | | 2x2.5m | | | |
| E1120XX Fuse Unit E11300X Meter Unit | 230VAC | 16A | | 10W 10W | | 1x4mm | | | |
| E1140XX Signal Lamp | 230VAC | - | | 10W | | 1x4mm | | | |
| E11500X Junction Box | 440VAC | - | | 10vv 10, 15 o | r 20W | | ² or 6x6mm ² | | |
| E1160XX Pushbutton Unit | 230VAC | 3A | | 10, 10 0 10W | 2000 | - | m ² or 2x1.5mm ² | | |
| E11700X Pilot Lamp Unit | 230VAC | - | | 10W | | 1x4mm | | | |
| E118000 Photocell Unit | 230VAC | 8A | | 10W | | 1x6mm | | | |
| Model specific data | | | | | | | | | |
| E11000X Rotary Switch Unit | 5.5kW AC3 max | | | | | | | | |
| E1120XX Fuse Unit | Solid link or BS88 t | fuses of 2 | 4.6.10.164 | A (80kA@ | 415VAC / | 40kA@25 | 50VAC) | | |
| E11300X Meter Unit | FSD 0.1,1,5,or 10A | | .,0,.0,10/ | . (55.01.6 | | . 5.5 () 20 | , | | |
| E1140XX Signal Lamp | 6.5V 0.15A MES ty | | | | | | | | |
| E11500X Junction Box | Maximum cable cu | | ity 7A/mm | 2 | | | | | |
| E1160XX Pushbutton Unit | Current derating: | Voltage | (VAC) | 110 | 230 | 400 | 500 | | |
| | | Current (| (AC15) | 6 | 3 | 2 | 1.6 | | |
| E11700X Pilot Lamp Unit | SBC Lamp 10W m | | | , | | | | | |
| E118000 Photocell Unit | Max load 2x250W | | 1x2000W (| (tungsten) | | | | | |
| | Switching differential 1:0.5 Connections: brown = live, blue = neutral, white = load | | | | | | | | |
| | Connections, blow | –ve, Di | ac – neuti | ai, wille = | 1000 | | | | |
| Conformity | | | | | | | | | |
| | EN 60079-1: 2007 | | EN 61241-1: 2004 | | | | | | |
| | EN 13463-1: 2001 | | EN 6052 | .9 | | | | | |



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To minimise the risk of ignition by electrical apparatus in hazardous areas efficient installation, inspection and maintenance of apparatus and systems is essential and the work should be carried out by suitably trained personnel in accordance with the prevailing code of practice.

Instructions common to all types

- 1) Pygmy units may be coupled to produce multi-gang assemblies by the use of an approved hollow bush. However, this must be done at the factory and should not be done by installers.
- 2) The enclosure should be used as a template when marking fixing points. Expanding bolts should be used when mounting on concrete, or suitably sized bolts, nuts and anti-vibration washers when mounting to a steel framework.
- 3) No metal should be removed from the enclosure i.e. extra cable entries or mounting points should not be made.
- 4) No modifications should be made to the fitted equipment without consultation with Pepperl+Fuchs. The fitted equipment has been assessed to produce a heat rise that will maintain the stated gas/dust temperature classes.
- 5) When selecting cable sizes reference should be made to Table 1 to ensure that the current in the circuit will not result in greater heat dissipation than the MDP figure stated above.
- 6) Cable entries should be made only with suitably approved Ex d / Ex tb glands noting that this equipment is suitable for use with gas group IIC & dust group IIIC. IP ratings should be suitable for the intended area of installation.
- 7) Ensure that the type of cable being used is suitable for the type of gland. Certain types of cable have a hollow centre and must not be used with compression type glands. With these types of cables, barrier or 'stuffing' glands should be used.
- 8) All unused entries should be fitted with suitably approved Ex d / Ex tb stopping plugs.
- 9) A corrosion inhibiting grease may be applied to the surface of the flameproof joints before assembly. If applied, the grease should be of a type that does not harden because of ageing, does not contain any evaporating solvent and does not cause corrosion of the joint surfaces.
- 10) Once the cover is fitted, ensure that all fasteners are fully tightened.

E11300X Meter Unit

- 1) Ammeter scale is as specified at time of ordering.
- 2) Full Scale Deflection (FSD) currents are as follows:

E113001 0.1A E113002 1A E113003 5A E113004 10A

E11500X Junction Box

- Terminals fitted are as follows:
 - E115001 MK3/8 E115002 MK6/6
- 2) Current density should not exceed value as stated above. Dissipation from cabling should not exceed MDP figure stated above please refer to Table 1.

E1160XX Pushbutton Unit

- 1) The unit may be provided with various actuating heads in single or double format.
- 2) Each actuator may be fitted with up to two contact blocks (either NO or NC).

E118001 Photocell Unit

- 1) The unit is designed to automatically switch lighting loads on and off depending on ambient light levels.
- 2) To test for correct operation, cover the window for approximately 85 seconds the unit will switch on. Remove the cover and wait for approximately 10 seconds the unit will switch off.
- 3) Warning when power is first supplied to the unit, the lamp circuit will be energised and the lampholder contacts will be live until the unit has switched off in daylight, this will take approximately 15-20 seconds.

| | Current (A) | | | | | | | | | | |
|-----------|-------------|---------|-------|-------|-------|-------|------|------|------|------|--|
| Cable CSA | 1 | 2 | 4 | 6 | 10 | 16 | 20 | 25 | 32 | 40 | |
| 1mm² | 0.0168 | 0.0672 | 0.269 | 0.605 | 1.68 | 4.3 | - | - | - | - | |
| 2.5mm² | 0.00672 | 0.0269 | 0.108 | 0.242 | 0.672 | 1.72 | 2.69 | 4.2 | - | - | |
| 4mm² | 0.0042 | 0.0168 | 0.067 | 0.151 | 0.42 | 1.08 | 1.68 | 2.63 | 4.3 | - | |
| 6mm² | 0.0028 | 0.0112 | 0.045 | 0.101 | 0.28 | 0.717 | 1.12 | 1.75 | 2.87 | 4.48 | |
| 10mm² | 0.00168 | 0.00672 | 0.027 | 0.061 | 0.168 | 0.43 | 0.67 | 1.05 | 1.72 | 2.69 | |

Table 1 - Dissipation of copper cables in W/m





Electrical apparatus installed in hazardous locations has design features that make it operationally safe under normal conditions. In order to ensure that the apparatus remains serviceable the following points should be attended to on a periodical basis. The period between inspections is not fixed, but should be adjusted to suit the environmental conditions where the equipment is situated. An initial inspection after 12 months of use is suggested.

- 1) Ensure that all fasteners are present and of the correct property class. Refer to the certification label for details.
- 2) Ensure that the enclosure is not damaged or distorted so as to affect the dimensions of the flameproof joints.
- 3) Ensure external earth bonding connections are in place and in good condition.
- 4) Ensure that all entry devices are in good condition and securely tightened.
- 5) Ensure that the certification label is present and legible.

Ensure that the location where the equipment is fitted is free from flammable gas or dust. With the enclosure open:

- 6) Ensure that the 'o' ring remains in place and is in good condition. Replacement 'o' rings are available from Pepperl+Fuchs.
- 7) Look for pitting or damage to the flamepaths of the enclosure body and cover. Surface corrosion may be removed, but abrasive cleaners should not be used.
- 8) Look for wear or damage to the flamepaths of any operating shafts (pushbuttons or rotary switches) that pass through the enclosure.
- 9) The flamepaths of the enclosure should be cleaned, and may optionally be coated in grease to guard against corrosion. If applied, the grease should be of a type that does not harden because of ageing, does not contain any evaporating solvent and does not cause corrosion of the joint surfaces.
- 10) With the cover refitted, ensure that all fixings are fully tightened.

