

#### **Specifications**

Types	SD204 20A 4 pole switch disconnector SD254 25A 4 pole switch disconnector SD324 32A 4 pole switch disconnector SD404 40A 4 pole switch disconnector SD634 63A 4 pole switch disconnector			
Hazardous Area ATEX certificate number IECEx certificate number GOST certificate number INMETRO certificate number CE number Certification coding for ATEX/IECEx	SIRA02ATEX1312 IECEX SIR 08.0066X POCC DE.ΓБ06.B01008 NCC 6239/10 € 0102 Ex d IIB T6 Gb Ex tb IIIC T85° Db			
Ambient temperature range IP Rating	-40°C to +55°C IP65			
Mechanical Material Finish Entry threadform SD204, SD254, SD324 SD404, SD634	Cast iron Painted black M20 M25			
Electrical  Maximum voltage  Maximum current/power/term.capacity  SD204  SD254  SD324  SD404  SD634	690VAC AC21(A) 20 25 32 40 63	AC23(kW) 5.5 7.5 11 15 22	AC3(kW) 3.7 5.5 7.5 11 18.5	Conductor size (mm² max) 2.5 6 6 16 16
Conformity	IEC 60079-0: 20 EN 60079-1: 200 EN 13463-1: 200 EN 61241-0: 200 EN 61241-1: 200 EN 60529	07 01 06		

# Installation

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.

- 1) 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.
- No metal should be removed from the enclosure i.e. extra cable entries or mounting points should not be made.
- 3) 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.
- 4) 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 IIB & dust group IIIC. IP ratings should be suitable for the intended area of installation.
- 5) 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.
- 6) All unused entries should be fitted with suitably approved Ex d / Ex tb stopping plugs.
- 7) 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.
- 8) Once the cover is fitted, ensure that all fasteners are fully tightened.



## Special conditions for safe use

1) The special condition for safe use mentioned in IECEx SIR 08.0066X is not relevant to the models listed in this document.

#### **Maintenance**

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) If a cover gasket is fitted, ensure that it remains in place and is in good condition. Replacement gaskets 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.

