Control and signalling devices

Position switches

8074/2-5-R-40 Art. No. 257213





- Large temperature range of use
- · Large inner connection chamber
- · High-quality metal Ex e enclosure with outer PE connection
- Degree of protection IP66/67
- · Five different contact versions
- · Ten different actuator versions



Position switches are used to position, control and monitor the moving parts on machines and systems. Because they meet the requirements of the EN 50 041 and IEC 60947-5-1 product standards, they can also be used as a position switch with a safety function. Series 8074/2 position switches are approved for use in hazardous areas of Zones 1, 2, 21 and 22.

In conjunction with a safety door guard and the corresponding circuitry, the PL position switches fulfil the requirements of "e" in accordance with EN ISO 13849-1, or up to SIL 3 in accordance with EN 62061. They are identified with the \ominus character to signify positive opening. There are snap- and slow-action versions with different types of contacts as well as with a variety of different actuating elements.

Technical Data

Explosion Protection

Scope of validityEuropean Union (ATEX) IECExApplication range (zones)12212221IECEx gas certificateIECEx BVS 16.0085IECEx gas explosion protectionEx db eb IIC T6 / T5 GbIECEx dust certificateIECEx BVS 16.0085IECEx dust certificateIECEx BVS 16.0085IECEx dust certificateBVS 05 ATEX E 007ATEX gas certificateBVS 05 ATEX E 007ATEX dust explosion protection💬 II 2 D Ex tb IIIC T80 °C / T95 °C DbCertificatesATEX (BVS), China (CQST), IECEx (BVS)Declaration of ConformityATEX (EUK)Electrical DataElectrical Data	Explosion Protection				
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Electrical Data					
Rated operational voltage DC 125 V					
AC operating voltage (equal potential) 500 V					
AC operating voltage (unequal potential) 250 V					
Rated insulation voltage 250 V					
Rated operational current max. 6.6 A					

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Electrical Data

Rated operational current note	6.6 A at T6 4.4 A at T5
Electrical service life	Max. 10 ⁶ operating cycles
Mechanical service life	Max. 10 ⁶ operating cycles
Rated surge voltage	4 kV
Short-circuit protection, max.	10 A
Tripping characteristic	gL/gG
Maximum operating frequency	1800 operating cycles/h
Switching function	Slow-action contact, Overlapping
Ambient Conditions	·
Ambient temperature	-40 °C +70 °C (T6)
	-40 °C +70 °C (T5)
Mechanical Data	
Version	2nd generation
Degree of protection (IP)	IP66
Degree of protection (IP) (IEC 60529)	IP66
Degree of protection (IP) IEC 60529) note	-40 °C
Enclosure material	Corrosion-resistant aluminium, powder-coated
Enclosure colour	Black/silver
Max. earth connection	4 mm ²
Cover material	1.4401 blasted stainless steel
Contact material	Silver-nickel
Solid connection cross section	0.75 – 2.5 mm²
Finely stranded connection cross section	0.75 – 2.5 mm²
Number of NCs	1
Positive opening operation	Yes
Number of NOs	1
Actuator	Roller plunger
Clamping range	4 13 mm
Type of connection cable	Solid
	Finely stranded
Contacts	1 NC + 1 NO
Contact system	2-pole, galvanically separated, with double break
Contact opening	≥ 1.5 mm (isolating distance ≥ 3 mm)
Packaging unit	1
Weight	299 g
Weight	0.66 lb
Mounting / Installation	1
Connection	Cable entry 8161 1xM20x1.5
Tightening torque	Screw terminals: Max. 0.4 Nm; cover screws: 1.5 to 2 Nm; cable entries: See installation note (included, but not installed)
Components	
Cable glands and entries	1 x M20 Ø 4 13 mm
Material cable gland	Polyamide, Glass fibre reinforced



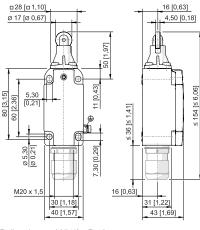


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Technical Drawings – Subject to Alterations

Slow-action contact, 1 NC + 1 NO, overlapping 8060/.-5; 807./2-5

Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations



Roller plunger 8074/2-.-R-40

Accessories

Pla

astic cable gland		Art. No.
	8161/7-M20-1307, Ex e Plastic, M20 x 1.5, cable outer diameter 7 to 13 mm Lot size 50 pieces	239172

Spare Parts

Actuator Art. No. Roller plunger actuator 257520 0 Art. No. **Contact element**

1 NC + 1 NO slow-action contact, overlapping 8080/1-5	132534

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.