Control and signalling devices

Position switch



8074/2-3-DD-40 Art. No. 257210



- · 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

MY R. STAHL 8074D



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

European Union (ATEX) IECEx
1, 2, 21, 22
IECEx BVS 16.0085
Ex db eb IIC T6 / T5 Gb
IECEx BVS 16.0085
Ex tb IIIC T80 °C / T95 °C Db
BVS 05 ATEX E 007
BVS 05 ATEX E 007
ATEX (BVS), China (CQST), IECEx (BVS)
ATEX (EUK)
125 V
400 V
250 V
250 V
6.6 A
6.6 A at T6 4.4 A at T5
Max. 10 ⁶ operating cycles

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Electrical Data		
Mechanical service life	Max. 10 ⁶ operating cycles	
Rated surge voltage	4 kV	
Max. short-circuit protection	10 A	
Tripping characteristic	gL/gG	
Maximum operating frequency	1800 operating cycles/h	
Switching function	Slow-action contact	
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 mm²	
Cover material	1.4401 blasted stainless steel	
Contact material	Silver-nickel	
Solid connection cross section	0.75 – 2.5 mm ²	
Finely stranded connection cross section	0.75 – 2.5 mm ²	
Number of NCs	2	
Positive opening operation	No	
Positive opening contact note	Not suitable for safety circuits!	
Actuator	Rod lever	
Clamping range	4 13 mm	
Type of connection cable	Solid Finely stranded	
Contacts	2 NC	
Contact system	2-pole, galvanically separated, with double break	
Contact opening	≥ 1.5 mm (isolating distance ≥ 3 mm)	
Packaging unit	1	
Weight	340 g	
Weight	0.75 lb	
Mounting / Installation		
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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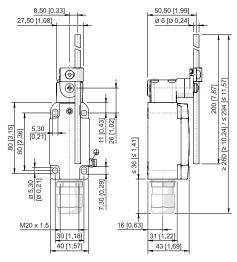
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Technical Drawings - Subject to Alterations



Slow-action contact, 2 NCs 8060/.-3; 807./2-3

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



Rod lever 8074/2-.-DD-40

Accessories

astic cable gland	Art. No.
	239172

Spare Parts

Contact element		Art. No.
	2 NC slow-action contact 8080/1-3	132532

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.