Control and signalling devices
Position switch

8070/2-4-D-U60 Art. No. 275066

- Large temperature range of use
- Large inner connection chamber
- Plastic Ex e enclosure
- Degree of protection IP66/67
- Five different contact versions
- Different actuator versions which can be repositioned by 4 x 90°
- Can also be used as simple apparatus

MY R. STAHL **8070C**

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 8070/2 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 ⊖ 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

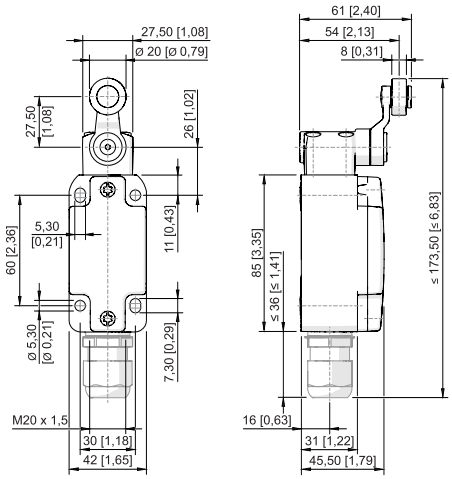
Explosion Protection	
Area of application	European Union (ATEX) IECEx
Application range (zones)	1, 2, 21, 22
IECEx gas certificate	IECEx BVS 17.0011X
IECEx gas explosion protection	Ex db eb IIC T6 Gb
IECEx dust certificate	IECEx BVS 17.0011X
IECEx dust explosion protection	Ex tb IIIC T80 °C Db
ATEX gas certificate	BVS 17 ATEX E 021X
ATEX gas explosion protection	II 2 G Ex db eb IIC T6 Gb
ATEX dust certificate	BVS 17 ATEX E 021X
ATEX dust explosion protection	II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (BVS), China (CQST), IECEx (BVS), India (PESO), Korea (KGS)
Declaration of conformity	ATEX (EUK), ATEX (Simple apparatus), China (CCC)
Electrical Data	
DC rated operational voltage	125 V
AC operating voltage (equal potential)	400 V
AC operating voltage (unequal potential)	250 V
Rated insulation voltage	500 V
Rated insulation voltage note	(for simple apparatus: 40 V)
Rated operational current max.	4 A
Rated operational current note	(for simple apparatus: 200 mA; inductance L_i and capacitance C_i are negligible)
Electrical service life	Max. 10^6 operating cycles

8070/2-4-D-U60 Art. No. 275066

Electrical Data	
Mechanical service life	Max. 10^6 operating cycles
Rated surge voltage	6 kV
Max. short-circuit protection	6 A
Tripping characteristic	gL/gG
Maximum operating frequency	1800 operating cycles/h
Switching function	Slow-action contact
Ambient Conditions	
Ambient temperature	-60 °C ... +55 °C (Max. 4 A) -20 °C ... +60 °C (IP67 (EN 60529)) (Max. 2 A) -60 °C ... +60 °C (Max. 2 A)
Ambient temperature	-60 °C ... +55 °C (Max. 4 A) -60 °C ... +60 °C (Max. 2 A)
Mechanical Data	
Version	2nd generation
Degree of protection (IP)	IP66
Degree of protection (IP) IEC 60529) note	down to -20 °C
Degree of protection (IP) (IEC 60529)	IP67
Enclosure material	Thermoplast GF, impact resistant
Enclosure colour	Black
Cover material	Duroplast GF, impact resistant
Contact material	Silver-nickel
Solid connection cross section	0.75 – 1.5 mm²
Finely stranded connection cross section	0.75 – 1.5 mm²
Positive opening operation	No
Number of NOs	2
Seal	Silicone
Actuator	Rotary lever
Clamping range	7 ... 13 mm
Type of connection cable	Finely stranded
Contacts	2 NO
Packaging unit	1
Weight	243 g
Weight	0.54 lb
Mounting / Installation	
Connection	Cable entry 8161 1xM20x1.5
Components	
Cable glands and entries	1 x M20 Ø 7 ... 13 mm
Material cable gland	Polyamide, Glass fibre reinforced

8070/2-4-D-U60 Art. No. 275066

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

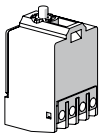


Swivelling lever 8070/2-.-D-U60

Accessories

Plastic cable gland		**Art. No.**
	8161/7-M20-1304, Ex e Polyamide, M20 x 1,5 mm, 4 – 13 mm Lot size 50 pieces	239156

Spare Parts

Contact element		**Art. No.**
	2 NO slow-action contact 8080/1-4	132533

Actuator		**Art. No.**
	Rotary lever actuator	275368
	Attention: Actuators and switches are factory-matched. Only the identical actuator of the original switch may be selected from the spare parts table. If a different actuator is used, a new switch is required.	

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.