

8070/2-2-TK300-U60 Art. No. 275346



- Operating temperature range: -60 °C to +60 °C
- Large inner connection chamber
- Plastic Ex e enclosure
- Degree of protection IP66/67
- Five different contact versions
- Different actuator versions, which can be displaced by 4 x 90°
- Also applicable as simple apparatus

MY R. STAHL 8070C



Plastic Position switch; switch dimensions meet the requirements of DIN EN 50041. It is designed to detect the position of moving components. Certified versions fulfil the requirements for safety switches as set out in EN 13849-1 and have positive-opening contacts in accordance with EN 60947-5-1.

### Technical Data

#### Explosion Protection

Scope of validity	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), Canada (CSA), China (CQST), IECEX (BVS), India (PESO), Korea (KGS), USA (CSA)
Declaration of Conformity	ATEX (EUK), ATEX (Simple apparatus), Declaration of Conformity (ATEX)

#### 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	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 <sup>6</sup> operating cycles
Mechanical service life	Max. 10 <sup>6</sup> operating cycles
Rated surge voltage	6 kV

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**Electrical Data**

Switching capacity AC-12	max. 250 V max. 500 V bei gleichem Potential max. 4 A max. 5000 VA
Switching capacity AC-15	max. 250 V max. 500 V bei gleichem Potential max. 4 A max. 1000 VA
Switching capacity DC-12	max. 125 V max. 4 A max. 400 W
Short-circuit protection, max.	6 A
Tripping characteristic	gL/gG
Maximum operating frequency	1800 operating cycles/h
Switching function	Snap-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)	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 mm <sup>2</sup>
Finely stranded connection cross section	0.75 – 1.5 mm <sup>2</sup>
Number of NCs	1
Positive opening operation	No
Number of NOs	1
Actuator	Spring rod head
Clamping range	7 ... 13 mm
Type of connection cable	Finely stranded
Contacts	1 NC + 1 NO
Seal	Silicone
Packaging unit	1
Weight	204 g
Weight	0.45 lb

**Mounting / Installation**

Connection	Cable entry 8161 1xM20x1.5
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**Components**

Cable glands and entries	1 x M20 Ø 7 to 13 mm
Material cable gland	Polyamide, Glass fibre reinforced

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### Accessories

#### Cable gland made of plastic

**Art. No.**



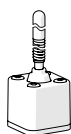
8161/7-M20-1307, Ex e  
Plastic, M20 x 1.5, cable outer diameter 7 to 13 mm  
Lot size 50 pieces

239172

### Spare Parts

#### Actuator

**Art. No.**

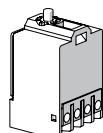


Spring rod head actuator

258605

#### Contact element

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1 NC + 1 NO snap-action contact 8080/1-2

279482

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