

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 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

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 <sup>6</sup> operating cycles
Mechanical service life	Max. 10 <sup>6</sup> operating cycles
Rated surge voltage	6 kV
Max. short-circuit protection	6 A
Tripping characteristic	gL/gG
Maximum operating frequency	1800 operating cycles/h

# Control and signalling devices

## Position switch



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### Electrical Data

Switching function	Slow-action contact
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### Ambient Conditions

Ambient temperature °C	-60 °C ... +55 °C (Max. 4 A) -20 °C ... +60 °C (IP67 (EN 60529)) (Max. 2 A) -60 °C ... +60 °C (Max. 2 A)
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Ambient temperature °C	-60 °C ... +55 °C (Max. 4 A) -60 °C ... +60 °C (Max. 2 A)
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### Mechanical Data

Version	2nd generation
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Degree of protection (IP)	IP66
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Degree of protection (IP) IEC 60529 note	down to -20 °C
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Degree of protection (IP) (IEC 60529)	IP67
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Enclosure material	Thermoplast GF, impact resistant
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Enclosure color	Black
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Cover material	Duroplast GF, impact resistant
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Contact material	Silver-nickel
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Solid connection cross section	0.75 – 1.5 mm <sup>2</sup>
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Finely stranded connection cross section	0.75 – 1.5 mm <sup>2</sup>
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Positive opening operation	No
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Number of NOs	2
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Actuator	Rotary lever
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Clamping range	7 ... 13 mm
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Type of connection cable	Finely stranded
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Contacts	2 NO
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Seal	Silicone
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Packaging unit	1
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Weight	243 g
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### Mounting / Installation

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

Cable glands and entries	1 x M20 Ø 7 ... 13 mm
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Material cable gland	Polyamide, Glass fibre reinforced
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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

## 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
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239156
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# Control and signalling devices

## Position switch

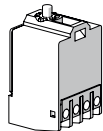


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### Spare Parts

#### Contact element

#### Art. No.

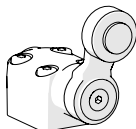


2 NO slow-action contact 8080/1-4

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.