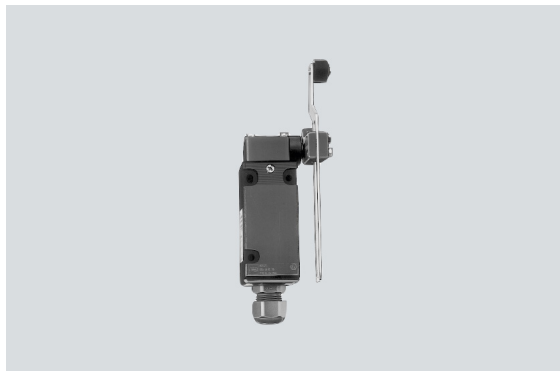


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- Interchangeable contact element with snap-action contact, slow-action contact or overlapping slow-action contact
- Various actuators are possible, all can be repositioned by 4 x 90°
- Suitable for safety circuits according to IEC/EN 60947-5-1, category 1 safety position switch, dimensions and characteristic values in accordance with EN 50041

MY R. STAHL 8070A



R. STAHL Series 8070 position switches are suitable for switching control and signal circuits and for safety circuits in accordance with EN 60947-5-1 in enclosures with increased safety. The dimensions comply with EN 50047. They are able to switch different potentials, comprise an interchangeable Ex d contact element with positive opening contacts, and are available with a variety of actuators.

Technical Data

Explosion Protection

Area of application	IECEX European Union (ATEX)
Application range (zones)	1, 2, 21, 22
IECEX gas certificate	IECEX PTB 06.0092
IECEX gas explosion protection	Ex de IIC T6
IECEX dust certificate	IECEX PTB 06.0092
IECEX dust explosion protection	Ex tD A21 T80 °C
ATEX gas certificate	PTB 01 ATEX 1053
ATEX gas explosion protection	Ex II 2 G Ex de IIC T6
ATEX dust certificate	PTB 01 ATEX 1053
ATEX dust explosion protection	Ex II 2 D Ex tD A21 T80 °C

Electrical Data

DC rated operational voltage	250 V
AC operating voltage (equal potential)	500 V
AC operating voltage (unequal potential)	250 V
Electrical service life	10 ⁶ operating cycles
Mechanical service life	≥ 1 x 10 ⁶ operating cycles
Actuating time	0
Max. short-circuit protection	10 A
Tripping characteristic	gG
Switching function	Slow-action contact

Ambient Conditions

Ambient temperature	-20 °C ... +50 °C
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Mechanical Data

Degree of protection (IP)	IP65
Enclosure material	Polyamide, Glass fibre reinforced

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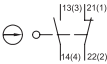
Mechanical Data

Enclosure colour	Black
Contact material	Silver-nickel
Terminals	1 x 2.5 mm ² or 2 x 1 mm ²
Number of NCs	1
Number of NOs	1
Actuator	Adjustable roller lever
Clamping range	4 ... 13 mm
Type of connection cable	Solid Finely stranded
Contacts	1 NC + 1 NO
Service life, min.	10 ⁶ operating cycles
Packaging unit	1
Weight	321 g
Weight	0.71 lb

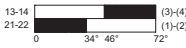
Components

Actuator 2	With rotary drive head
Actuator 3	Roller (moulded material)
Actuator 4	Roller rod (stainless steel)
Cable glands and entries	1 x M20 x 1.5

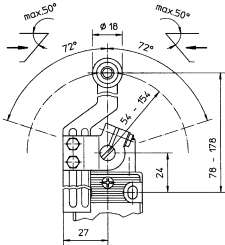
Technical Drawings – Subject to Alterations



Schematic
with positive opening 8060/1-1-...; 8070/1-1-...



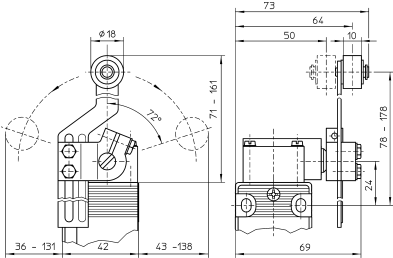
Nominal travel or switching angle:
■ = contact closed
□ = contact open
Zw = positive opening distance



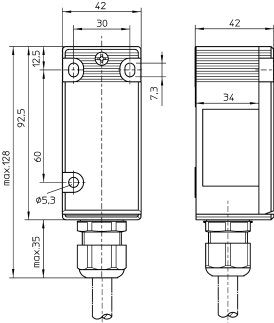
Adjustable roller lever
If the adjustable roller lever swings back freely from an angle of > 40°, the lever moving beyond the intended position may cause a false signal.
V = 1.4 m/s

V = max. operating speed
→ = direction of actuation

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



Adjustable roller lever



Position switch without actuator

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Accessories

Plastic cable gland



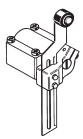
8161/7-M20-1304, Ex e
Polyamide, M20 x 1,5 mm, 4 – 13 mm
Lot size 50 pieces

Art. No.

239156

Spare Parts

Drive head



Adjustable roller lever
8070/1-0-HV

Art. No.

131818

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.