

8070/2-1-AZ-U60 Art. No. 258226



- 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

WebCode **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	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
EAC certificate	TS RU S-DE.AA87.B.00619
EAC gas explosion protection	Ex 1 Ex db e IIC T6 Gb
EAC dust explosion protection	Ex tb IIIC T80 °C Db
Certificates	ATEX (BVS), Canada / USA (CSA), EAC (CCVE), IECEX (BVS), India (PESO)

Electrical Data

Rated operational voltage DC	125 V
Rated operational voltage AC (equal potential)	500 V
Rated operational voltage (unequal potential)	250 V
Rated insulation voltage	500 V
Rated insulation voltage note	(for simple apparatus: 40 V)
Rated operational current	4 A 2 A

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Electrical Data

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
Mechanical service life	max. 10^6 operating cycles
Rated surge voltage	6 kV
Short-circuit protection max.	6 A
Tripping characteristic	gL/gG
Maximum operating frequency	1800 switching cycles/h
Switching function	Slow-action contact

Ambient Conditions

Ambient temperature	-50 °C ... +55 °C (max. 4 A) -20 °C ... +60 °C (IP67 (EN 60529)) (max. 2 A) -50 °C ... +60 °C (max. 2 A)
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Mechanical Data

Version	2. Generation
Degree of protection (IP)	IP66
Degree of protection IP (IEC 60529)	IP67
Enclosure material	thermoplast GFR, imp.resistant
Cover material	thermoset GFR, imp. resistant
Contact material	silver-nickel
Clamping range max.	13 mm
Clamping range min.	7 mm
Connection cross-section solid	0.75 – 1.5 mm ²
Connection cross-section finely stranded	0.75 – 1.5 mm ²
Positive opening contact	Yes
Actuator	Safety switch
Type of connection cable	finely-stranded
Contacts	1 NC + 1 NO
Contact system	2-pole, galvanically separated with double break
Contact opening	≥ 1.5 mm (isolating distance ≥ 3 mm)
Enclosure colour	black
Seal	Silicone
Packaging unit	1
Weight	0.194 kg
Weight	0.43 lb

Mounting / Installation

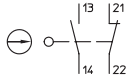
Connection	Cable entry 8161 1xM20x1,5
Tightening torque	Screw terminals: 0.4 Nm max.; Cover screws: 1.5 ... 2 Nm; Cable glands: see installation note (enclosed unattached)

Components

Cable entries	1 x M20 Ø 7 – 13 mm
Material cable gland	polyamide, glass fibre-reinforced

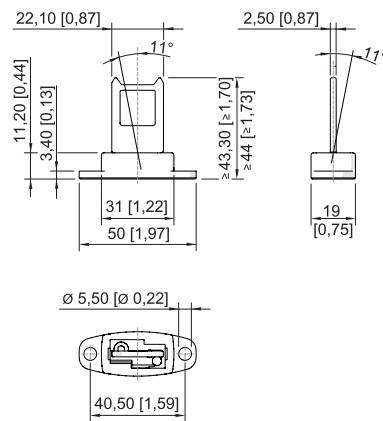
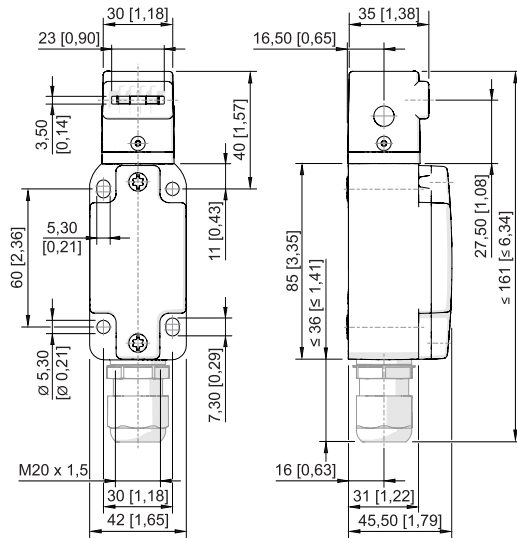
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Technical Drawings – Subject to Alterations



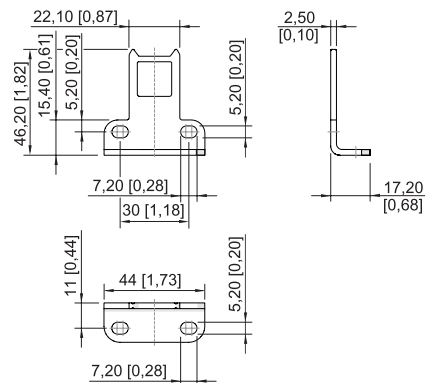
Slow-action contact 1 NC + 1 NO
8060/-1, 807./2-1

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

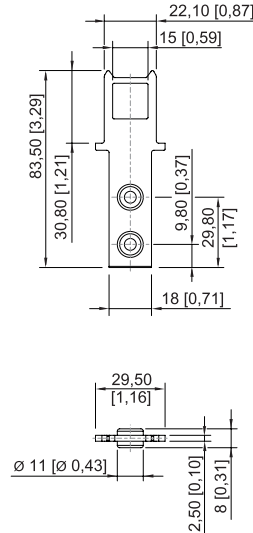


Adjustable actuator for safety switch

Safety switch 8070/2--AZ-U50



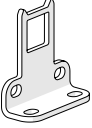
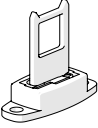
Angled actuator for safety switch



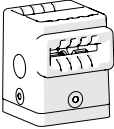
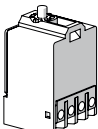
Straight actuator for safety switch

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Accessories

Actuator		Art. No.
	Bent actuator	258608
	Movable actuator	258609
	Straight actuator	258607
Cable gland made of plastic		Art. No.
	8161/7-M20-1307 7 ... 13 mm ² , 50 pieces (delivery lot ¹⁾)	239172

Spare Parts

Actuator		Art. No.
	Safety switch actuator	258606
Contact element		Art. No.
	1 NC + 1 NO slow-action contact 8080/1-1	132529

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.