

8060/2-5-R-60 Art. No. 254798



- Operating temperature range: -60 °C to +60 °C
- 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 **8060B**



Plastic position switch; switch dimensions meet the requirements of DIN EN 50047. 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 16.0066
IECEx gas explosion protection	Ex db eb IIC T6 Gb
IECEx dust certificate	IECEx BVS 16.0066
IECEx dust explosion protection	Ex tb IIIC T80 °C Db
ATEX gas certificate	BVS 16 ATEX E 100
ATEX gas explosion protection	II 2 G Ex db eb IIC T6 Gb
ATEX dust certificate	BVS 16 ATEX E 100
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)
Electrical Data	
DC rated operational voltage	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	2 A 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
Mechanical service life	Max. 10 ⁶ operating cycles
Rated surge voltage	6 kV

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Electrical Data

Short-circuit protection, max.	6 A
Tripping characteristic	gL/gG
Maximum operating frequency	1800 operating cycles/h
Switching function	Slow-action contact, Overlapping

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)
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Mechanical Data

Version	2nd generation
Degree of protection (IP)	IP66
IP degree of protection (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 ²
Finely stranded connection cross section	0.75 – 1.5 mm ²
Number of NCs	1
Positive opening operation	Yes
Number of NOs	1
Actuator	Roller plunger
Clamping range	7 ... 13 mm
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)
Seal	Silicone
Packaging unit	1
Weight	0.1 kg
Weight	0.22 lb

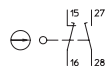
Mounting / Installation

Connection	Cable entry 8161 1xM20x1.5
Tightening torque	Screw terminals: 0.4 Nm max.; Cover screws: 0.4 ... 0.45 Nm; Cable glands: see installation note (enclosed unattached)

Components

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

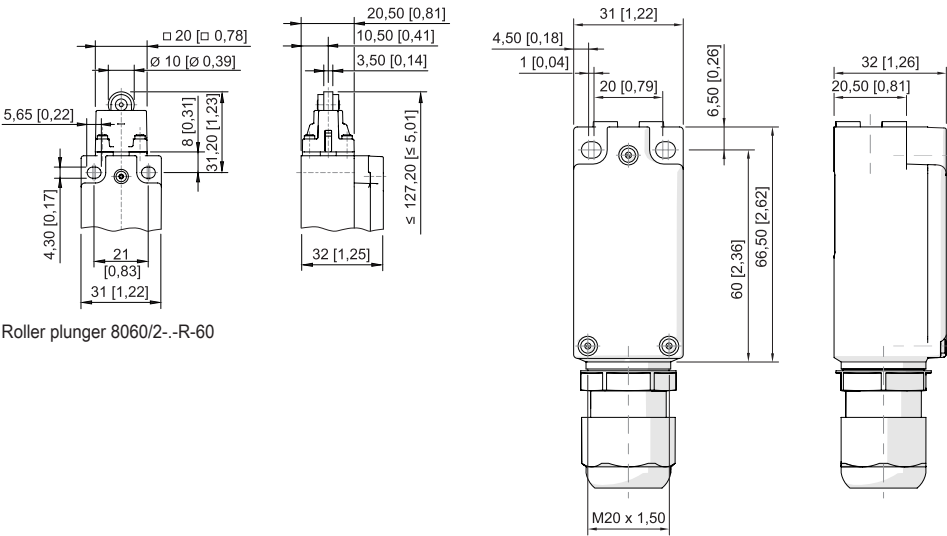
Technical Drawings – Subject to Alterations



Slow-action contact 1 NC + 1 NO, make before break
8060/-5; 807./2-5

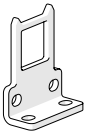
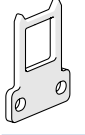
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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

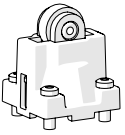
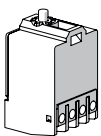


Roller plunger 8060/2-5-R-60

Accessories

Actuator		Art. No.
	Angled actuator	257053
	Straight actuator	257052
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.
	Roller plunger actuator	257054
Contact element		Art. No.
	1 NC + 1 NO Slow-action contact, make before break 8080/1-5	132534

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