



AZ 16-12ZIB1-M16

- 3 cable entries M 16 x 1.5
- Thermoplastic enclosure
- Individual coding
- Coding level "High" according to ISO 14119
- 52 mm x 90 mm x 30 mm
- Long life
- Double-insulated
- Large wiring compartment
- High level of contact reliability with low voltages and currents
- Insensitive to soiling
- Slotted holes for adjustment, circular holes for location

Data

Ordering data

Product type description	AZ 16-12ZIB1-M16
Article number (order number)	101150050
EAN (European Article Number)	4030661154442
eCl@ss number, version 12.0	27-27-26-02
eCl@ss number, version 11.0	27-27-26-02
eCl@ss number, version 9.0	27-27-26-02
ETIM number, version 7.0	EC002592
ETIM number, version 6.0	EC002592

Approvals - Standards

Certificates	cULus
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General data

Standards	EN IEC 60947-5-1
	EN ISO 13849-1
	EN ISO 14119
Coding level according to EN ISO 14119	High
Working principle	mechanical

General data

Housing material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Material of the actuator	Stainless steel
Gross weight	158 g

General data - Features

Ejection force	Yes
Number of auxiliary contacts	1
Number of safety contacts	2
Number of cable glands	3

Safety classification

Standards	EN IEC 60947-5-1
Performance Level, up to	c
Category	1
B10D Normally-closed contact (NC)	2,000,000 Operations
Note	Electrical life on request.
B10D Normally-open contact (NO)	1,000,000 Operations
Note	at 10% I _e and ohmic load
Mission time	20 Year(s)

Safety classification - Fault exclusion

Please note:	Can be used when fault exclusion for dangerous damage to the 1-channel mechanism is permissible and sufficient protection against manipulation is guaranteed.
Performance Level, up to	d
Category	3
Note	for 2-channel use and with suitable logic unit.
Mission time	20 Year(s)

Mechanical data

Actuating radius, minimum	250 mm
Actuator	rigid
	straight
Mechanical lifetime, minimum	1,000,000 Operations
Positive break travel	8 mm

Mechanical data

Positive break force per NC contact, minimum	10 N
Positive break force, minimum	20 N
Actuating speed, maximum	2 m/s
Mounting	Screws
Type of the fixing screws	2x M6

Mechanical data - Connection technique

Type of electrical connection	Screw terminals M16 x 1.5
Cable entry	3 x M16 x 1,5
Termination	Screw terminals
Cable section, minimum	0.75 mm ²
Cable section, maximum	2.5 mm ²
Note	All indications including the conductor ferrules.
Allowed type of cable	solid single-wire
	solid multi-wire
	flexible

Mechanical data - Dimensions

Length of sensor	30 mm
Width of sensor	52 mm
Height of sensor	90 mm

Ambient conditions

IP Degree of protection	IP67
Ambient temperature	-40 ... +80 °C
Storage and transport temperature	-40 ... +85 °C
Permissible installation altitude above sea level, maximum	2,000 m

Ambient conditions - Insulation values

Rated insulation voltage Ui	500 V
Rated impulse withstand voltage Uimp	6 kV
Overvoltage category	III
Degree of pollution	3

Electrical data

Thermal test current	10 A
Required rated short-circuit current	1,000 A
Switching element	1 NO contact, 2 NC contacts
Switching principle	slow action, positive break NC contact
Maximum switching frequency	4,000 /h
Material of the contacts, electrical	Silver

Electrical data - Safety contacts

Voltage, Utilisation category AC-15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	4 A

Electrical data - Auxiliary contacts

Voltage, Utilisation category AC-15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	4 A

Scope of delivery

Scope of delivery	Slot sealing plugs
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Note

Note (General)	The axis of the hinge must be 5 mm above and in a parallel plane to the top surface of the safety switch.
	Minimum actuating radius on hinged guards 250 mm
	The actuator is not available separately.

Pictures

Product picture (catalogue individual photo)



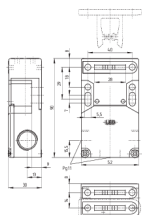
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[| 23.81 KB | .jpg | 180 x 350 Pixel](#)

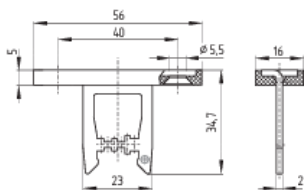
[| 71.71 KB | .png | 209 x 407 Pixel](#)

Dimensional drawing basic component



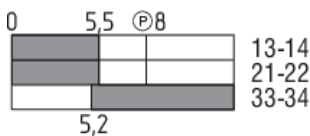
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Dimensional drawing actuator



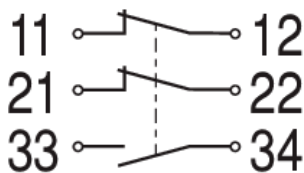
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Switch travel diagram



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Diagram



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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.
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