



AZ 16-12ZI-ST-B1-2053

- 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
- For interlocking of light to medium-weight guards
- adjustable ball latch

Data

Ordering data

Product type description	AZ 16-12ZI-ST-B1-2053
Article number (order number)	103012290
EAN (European Article Number)	4030661482750
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	IFA cULus
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General data

Standards	EN ISO 13849-1 EN ISO 14119 EN IEC 60947-5-1
Coding level according to EN ISO 14119	High
Working principle	electromechanical
Housing material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Material of the actuator	Stainless steel
Gross weight	200 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
B _{10D} Normally-closed contact (NC)	2,000,000 Operations
Note	Electrical life on request.
B _{10D} 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	straight rigid
Mechanical life, minimum	1,000,000 Operations
Latching force, adjustable to	100 N
Positive break travel	8 mm
Positive break force per NC contact, minimum	10 N
Actuating speed, maximum	2 m/s
Mounting	Screws
Type of the fixing screws	2x M6

Mechanical data - Connection technique

Connector position	Bottom
Cable entry	M12 (A-coding)
Termination	Connector plug M12, 8-pole, (A-coding)
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

Degree of protection	IP67
Ambient temperature	-30 ... +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 U_i	500 V
Rated impulse withstand voltage U_{imp}	0.8 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
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Current, Utilisation category AC- 4 A
15

Voltage, Utilisation category DC- 24 VDC
13

Current, Utilisation category DC- 4 A
13

Note, Utilisation category DC-13 Connector 8-pole

Electrical data - Auxiliary contacts

Current, Utilisation category AC- 4 A
15

Current, Utilisation category DC- 4 A
13

Note, Utilisation category DC-13 Connector 8-pin

Scope of delivery

Scope of delivery Slot sealing plugs

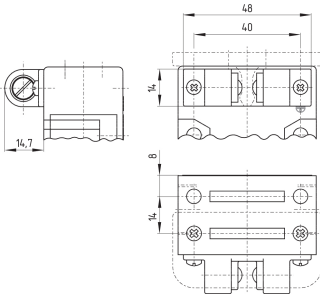
Note

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.

Ordering code

Product type description:
AZ 16-(1)ZI-(2)-(3)

(1)	
03	3 NC contact
12	1 NO contact/2 NC contacts
(2)	
B1	straight design

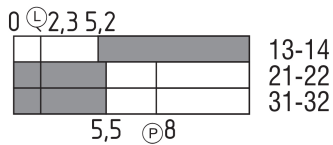


ID: kaz15b02

| 5.0 kB | .png | 74.083 x 68.086 mm - 210 x 193 px - 72 dpi

| 163.5 kB | .jpg | 352.778 x 324.203 mm - 1000 x 919 px - 72 dpi

Switch travel diagram



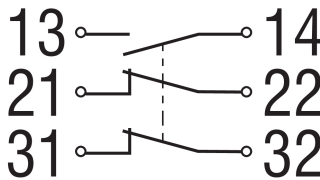
ID: kaz16s04

| 20.2 kB | .cdr |

| 2.1 kB | .png | 74.083 x 32.103 mm - 210 x 91 px - 72 dpi

| 65.6 kB | .jpg | 352.778 x 152.047 mm - 1000 x 431 px - 72 dpi

Diagram

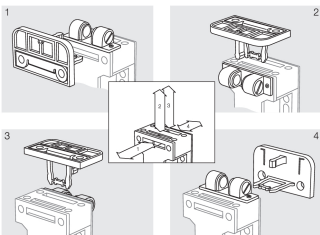


ID: k2o1sk02

| 82.3 kB | .jpg | 352.778 x 193.322 mm - 1000 x 548 px - 72 dpi

| 3.2 kB | .png | 74.083 x 40.569 mm - 210 x 115 px - 72 dpi

Operating principle



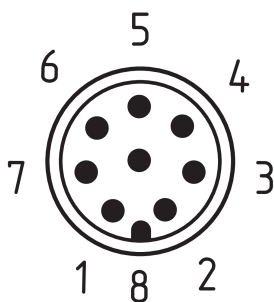
ID: kaz16ai2

| 83.4 kB | .cdr |

| 245.9 kB | .jpg | 352.778 x 255.058 mm - 1000 x 723 px - 72 dpi

| 24.0 kB | .png | 74.083 x 53.622 mm - 210 x 152 px - 72 dpi

Contact arrangement



ID: km12-k8b

| 5.3 kB | .png | 73.731 x 87.489 mm - 209 x 248 px - 72 dpi

| 138.6 kB | .jpg | 352.425 x 417.689 mm - 999 x 1184 px - 72 dpi

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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