



AZ16-12ZI-B1-M16-2053

- Long life
- Multiple coding
- Double-insulated
- 52 mm x 90 mm x 30 mm
- Insensitive to soiling
- Thermoplastic enclosure
- Slotted holes for adjustment, circular holes for location
- High level of contact reliability with low voltages and currents

Data

Ordering data

Product type description	AZ16-12ZI-B1-M16-2053
Article number (order number)	101150053
EAN (European Article Number)	4030661154473
eCl@ss number, Version 9.0	27-27-26-02
eCl@ss number, Version 11.0	27-27-26-02

Approval - Standards

Certificates	TÜV EAC
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General data

Product name	AZ 16ZI
Coding level according to ISO 14119	High
Enclosure material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Material of the actuator	Stainless steel
Material of the contacts, electrical	Silver
Gross weight	174 g

General data - Features

Number of auxiliary contacts	1
Number of safety contacts	2

Safety appraisal

Standards	BG-GS-ET-15
	EN ISO 13849-1
	EN 60947-5-1
Mission Time	20 Year(s)

Safety appraisal - Safety outputs

B10d Normally-closed contact (NC)	2,000,000 Operations
B10d Normally open contact (NO)	1,000,000 Operations
Note (B10d Normally open contact (NO))	at 10% I_e and ohmic load

Mechanical data

Actuating radius, minimum	250 mm
Mechanical life, minimum	1,000,000 Operations
positive break travel	8 mm
Positive break force, minimum	10 N
Actuating speed, maximum	2 m/s

Mechanical data - Connection technique

Terminal Connector	Screw terminals
Cable section, minimum	0.75 mm ²
Cable section, maximum	2.5 mm ²
Note (Cable section)	All indications about the cable section are including the conductor ferrules.

Mechanical data - Dimensions

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

Ambient conditions

Degree of protection	IP 67 to IEC/EN 60529
Ambient temperature, minimum	-30 °C
Ambient temperature, maximum	+80 °C

Ambient conditions - Insulation value

Rated insulation voltage U_i	500 V
Rated impulse withstand voltage U_{imp}	6 kV

Electrical data

Thermal test current	10 A
Switching element	NO contact, NC contact
Switching principle	Creep circuit element

Electrical data - Safety contacts

Voltage, Utilisation category AC15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	4 A

Electrical data - Auxiliary contacts

Voltage, Utilisation category AC15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	4 A

Scope of delivery

Included in delivery	Actuators must be ordered separately.
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Notes

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.
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Ordering code

Product type description:

AZ 16-(1)ZV(2)K-(3)-(4)-(5)

(1)

without 1 NO contacts/1 NC contact

02 2 NC contact

03 3 NC contact

12 1 NO contact/2 NC contacts

(2)

without Ejection force

R Latching force 30 N

(3)

G24 with LED (only available for version with one NO and one NC contact)

(4)

M16 cable entry M16

M20 Cable entry M20

ST Connector M12, 4 pole, bottom

STL Connector M12, 4 pole, left

STR Connector M12, 4 pole, right

(5)

2254 Latching force 5 N

1762 Front mounting

1637 Gold-plated contacts

Pictures

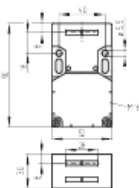
Product picture (catalogue individual photo)



ID: kaz16f01

| 471,8 kB | .jpg | 165.806 x 268.817 mm - 470 x 762
Pixel - 72 dpi
| 115,4 kB | .png | 74.083 x 119.944 mm - 210 x 340
Pixel - 72 dpi

Dimensional drawing basic component

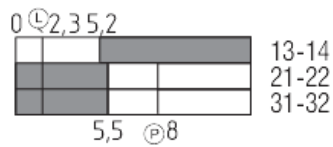


ID: 1az16g01

| 62,3 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697
Pixel - 72 dpi
| 3,1 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel
- 72 dpi
| 28,1 kB | .cdr |

Switch travel diagram

ID: kaz16s04

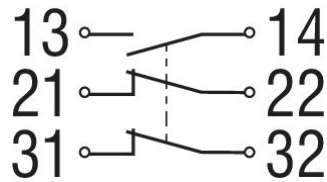


| 65,6 kB | .jpg | 352.778 x 152.047 mm - 1000 x 431
Pixel - 72 dpi

| 20,2 kB | .cdr |

| 2,1 kB | .png | 74.083 x 32.103 mm - 210 x 91 Pixel -
72 dpi

Diagram



ID: k2o1sk02

| 18,4 kB | .cdr |

| 82,3 kB | .jpg | 352.778 x 193.322 mm - 1000 x 548
Pixel - 72 dpi

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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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