DATASHEET



AZ 16-12ZIB1-M20

- 3 cable entries M 20 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-M20
Article number (order number)	101150623
EAN (European Article Number)	4030661158136
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

General data

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	156 g

General data - Features

Ejection force	Yes
Number of auxiliary contacts	1
Number of safety contacts	2

Safety appraisal

Standards	BG-GS-ET-15 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
Actuator	straight rigid
Mechanical life, minimum	1,000,000 Operations
positive break travel	8 mm
Positive break force, minimum	20 N
Actuating speed, maximum	2 m/s

Mechanical data - Connection technique

Terminal Connector	Screw terminals
Cable section, minimum	0.75 mm²
Cable section, maximum	2.5 mm²

Mechanical data - Dimensions

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

Ambient conditions

Degree of protection	IP67 to EN 60529
Ambient temperature, minimum	-30 °C
Ambient temperature, maximum	+80 °C
TEMP_AMBIENT_MIN_GEN	-30

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

Current, Utilisation category AC-15	4 A
Current, Utilisation category DC13	4 A

Scope of delivery

Included in delivery	Slot sealing plugs
Delivery scope of Mounting material	Tamperproof screws

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.

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
B1-1747	straight design with magnetic latch
B1-2024	straight design with slot-lip seal
B1-2053	straight design with ball latch
B1-2177	straight design with centering guide
B6L	angled, flexible to the left
B6R	angled, flexible to the right

(3)

M16	cable entry M16
M20	Cable entry M20

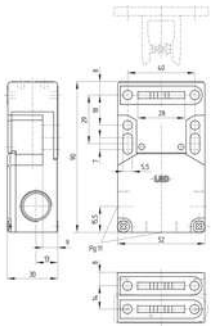
Pictures

Product picture (catalogue individual photo)



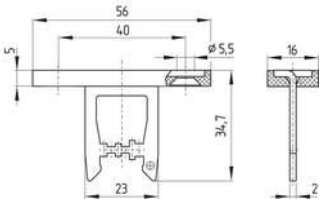
ID: kaz16f11
| 674.9 kB | .jpg | 352.778 x 685.094 mm - 1000 x 1942 px - 72 dpi
| 64.3 kB | .png | 73.731 x 143.581 mm - 209 x 407 px - 72 dpi

Dimensional drawing basic component



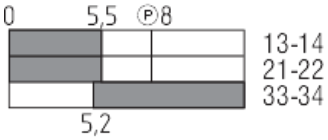
ID: kaz16gi1
| 49.5 kB | .cdr |
| 8.1 kB | .png | 74.083 x 115.006 mm - 210 x 326 px - 72 dpi
| 283.3 kB | .jpg | 352.778 x 548.569 mm - 1000 x 1555 px - 72 dpi

Dimensional drawing actuator



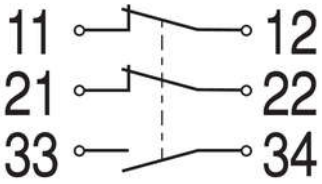
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| 3.4 kB | .png | 74.083 x 45.861 mm - 210 x 130 px - 72 dpi
| 91.2 kB | .jpg | 352.778 x 217.664 mm - 1000 x 617 px - 72 dpi

Switch travel diagram



ID: kaz16si7
| 2.4 kB | .png | 74.083 x 33.514 mm - 210 x 95 px - 72 dpi

Diagram



ID: k2o1sk04
| 16.0 kB | .cdr |
| 80.6 kB | .jpg | 352.778 x 195.439 mm - 1000 x 554 px - 72 dpi

Actuating radius

ID: kaz16ri1
| 25.1 kB | .cdr |

Actuating radius

ID: kaz16ri2
| 22.6 kB | .cdr |

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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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