

AZ 16-03ZIB1-M16-2177



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

Data

Ordering data

Product type description	AZ 16-03ZI-B1-2177 MIT ZENTRIERHILFE
Article number (order number)	101150059
EAN (European Article Number)	4030661154534
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

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	150 g

General data - Features

Ejection force	Yes
Number of safety contacts	3

Safety appraisal

Standards	ISO 13849-1
Mission Time	20 Year(s)

Safety appraisal - Safety outputs

B10d Normally-closed contact (NC) 2,000,000 Operations

Mechanical data

Actuating radius, minimum	250 mm
Actuator	straight rigid
Mechanical life, minimum	1,000,000 Operations
Latching force	30 N
positive break travel	8 mm
Positive break force, minimum	30 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 impulse withstand voltage U _{imp}	6 kV
--	------

Electrical data

Thermal test current	10 A
Switching element	Opener (NC)
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

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 11 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)

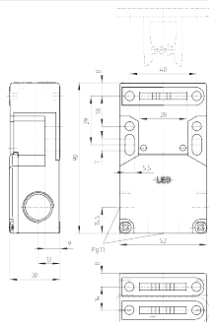


ID: kaz16f11

| 64,3 kB | .png | 73.731 x 143.581 mm - 209 x 407
Pixel - 72 dpi

| 674,9 kB | .jpg | 352.778 x 685.094 mm - 1000 x
1942 Pixel - 72 dpi

Dimensional drawing basic component



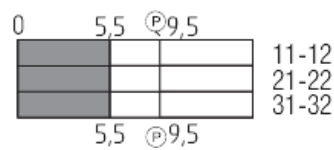
ID: kaz16gi1

| 49,5 kB | .cdr |

| 283,3 kB | .jpg | 352.778 x 548.569 mm - 1000 x
1555 Pixel - 72 dpi

| 8,1 kB | .png | 74.083 x 115.006 mm - 210 x 326
Pixel - 72 dpi

Switch travel diagram



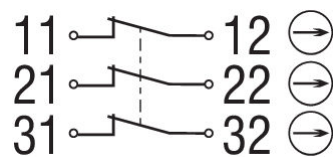
ID: kaz16si6

| 19,9 kB | .cdr |

| 1,9 kB | .png | 74.083 x 31.75 mm - 210 x 90 Pixel -
72 dpi

| 62,1 kB | .jpg | 352.778 x 150.636 mm - 1000 x 427
Pixel - 72 dpi

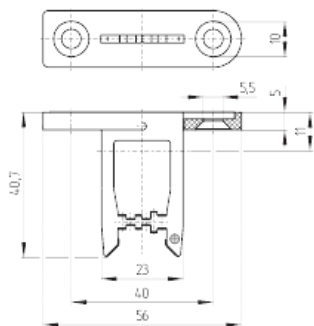
Diagram



ID: k3o--k04

| 88,2 kB | .jpg | 352.778 x 171.803 mm - 1000 x 487
Pixel - 72 dpi

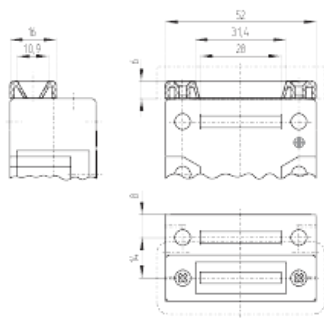
Dimensional drawing actuator



ID: kaz16bi1

| 143,2 kB | .jpg | 352.425 x 365.125 mm - 999 x 1035 Pixel - 72 dpi
| 4,5 kB | .png | 74.083 x 76.553 mm - 210 x 217 Pixel - 72 dpi

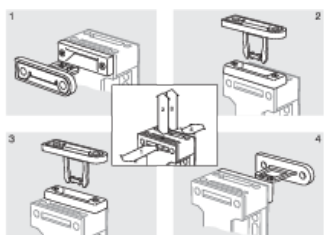
Dimensional drawing actuator



ID: kaz15b04

| 5,5 kB | .png | 74.083 x 73.378 mm - 210 x 208 Pixel - 72 dpi
| 173,6 kB | .jpg | 352.778 x 348.897 mm - 1000 x 989 Pixel - 72 dpi

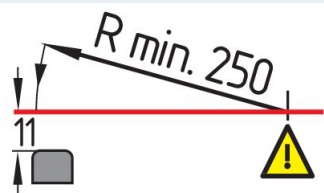
Operating principle



ID: kaz16ai3

| 20,3 kB | .png | 74.083 x 53.269 mm - 210 x 151 Pixel - 72 dpi
| 216,0 kB | .jpg | 352.778 x 254.353 mm - 1000 x 721 Pixel - 72 dpi
| 65,5 kB | .cdr |

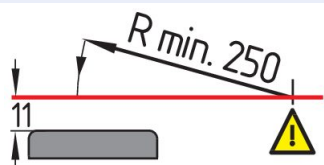
Actuating radius



ID: kaz16ri3

| 22,7 kB | .cdr |

Actuating radius



ID: kaz16ri4

| 22,6 kB | .cdr |

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal

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.

Generated on 20/05/2021 05:36:59