



## AZ 16-12ZI-B6R-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 16-12ZI-B6R-M16
Article number (order number)	103005855
EAN (European Article Number)	4030661440729
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
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

### Safety classification

Standards	EN ISO 13849-1
Performance Level, up to	c
Category	1
B <sub>10D</sub> Normally-closed contact (NC)	2,000,000 Operations
Note	Electrical life on request.
B <sub>10D</sub> Normally-open contact (NO)	1,000,000 Operations
Note	at 10% I <sub>e</sub> 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)
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### **Mechanical data**

Actuating radius, minimum	35 mm
Actuator	angled flexible
Mechanical life, minimum	1,000,000 Operations
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**

Cable entry	3 x M16 x 1,5
Termination	Screw terminals
Cable section, minimum	0.75 mm <sup>2</sup>
Cable section, maximum	2.5 mm <sup>2</sup>
Note	All indications 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	IP67
Ambient temperature	-30 ... +80 °C
Storage and transport temperature	-40 ... +85 °C

Permissible installation altitude 2,000 m  
above sea level, maximum

### Ambient conditions - Insulation values

Rated insulation voltage  $U_i$  500 V

Rated impulse withstand voltage 6 kV  
 $U_{imp}$

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- 230 VAC  
15

Current, Utilisation category AC- 4 A  
15

Voltage, Utilisation category DC- 24 VDC  
13

Current, Utilisation category DC- 4 A  
13

### Electrical data - Auxiliary contacts

Voltage, Utilisation category AC- 230 VAC  
15

Current, Utilisation category AC- 4 A  
15

Voltage, Utilisation category DC- 24 VDC  
13

Current, Utilisation category DC- 4 A  
13

## Scope of delivery

Scope of delivery Individually coded actuator B6 right-hand model

## 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 35 mm  
The actuator is not available separately.

## Ordering code

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

(1)

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<b>03</b>	3 NC contact
<b>12</b>	1 NO contact/2 NC contacts

(2)

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

(3)

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M16

cable entry M16

M20

Cable entry M20

## Pictures

### Product picture (catalogue individual photo)



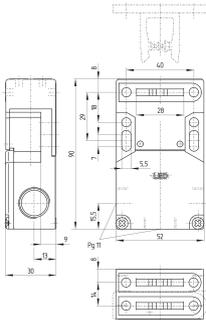
ID: kaz16f11

| 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

| 29.8 kB | .jpg | 63.5 x 123.472 mm - 180 x 350 px - 72 dpi

### Dimensional drawing basic component



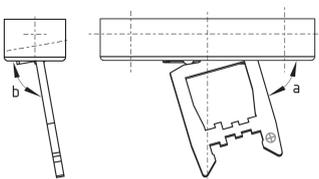
ID: kaz16gi1

| 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



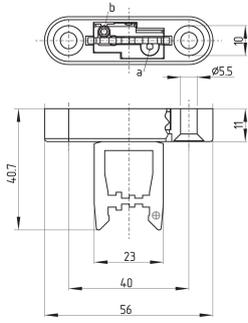
ID: kaz16bi8b

| 121.8 kB | .ai | 297 x 210.002 mm - 841 x 595 px - 72 dpi

| 1.7 kB | .png | 74.083 x 52.564 mm - 210 x 149 px - 72 dpi

| 91.9 kB | .jpg | 352.778 x 306.917 mm - 1000 x 870 px - 72 dpi

### Dimensional drawing actuator



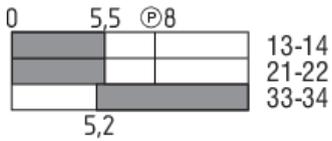
ID: kaz16bi6

| 90.1 kB | .ai | 210.002 x 297 mm - 595 x 841 px - 72 dpi

| 3.3 kB | .png | 73.731 x 104.422 mm - 209 x 296 px - 72 dpi

| 172.0 kB | .jpg | 352.425 x 462.492 mm - 999 x 1311 px - 72 dpi

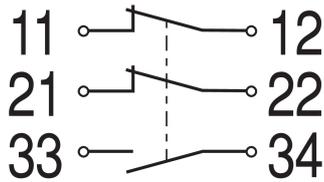
## Switch travel diagram



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

| 3.3 kB | .png | 74.083 x 40.922 mm - 210 x 116 px - 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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