



## AZ 17-11ZRI-ST B6R

- Connector M12 x 1, 4-pole
- right-hand model
- For very small actuating radii in line with or at 90° to the plane of the actuator
- Thermoplastic enclosure
- Double-insulated
- Long life
- 30 mm x 60 mm x 30 mm
- small body
- Individual coding
- Coding level "High" according to ISO 14119
- High level of contact reliability with low voltages and currents
- Insensitive to soiling
- Slot sealing plug included
- 8 actuating planes

## Data

### Ordering data

Product type description	AZ 17-11ZRI-ST B6R
Article number (order number)	101144090
EAN (European Article Number)	4030661130897
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

### 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	100 g

### General data - Features

Increased latching force	Yes
Number of actuating directions	2
Number of auxiliary contacts	1
Number of safety contacts	1

### Safety classification

Standards	EN ISO 13849-1 EN IEC 60947-5-1
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.
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Performance Level, up to	d
Category	3
Note	for 2-channel use and with suitable logic unit.
Mission time	20 Year(s)

### Mechanical data

Mechanical life, minimum	1,000,000 Operations
Latching force	30 N
Positive break travel	11 mm
Positive break force per NC contact, minimum	17 N
Actuating speed, maximum	2 m/s
Type of the fixing screws	2x M5

### Mechanical data - Connection technique

Termination	Connector plug M12, 4-pole, (A-coding)
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### Mechanical data - Dimensions

Length of sensor	30 mm
Width of sensor	30 mm
Height of sensor	85 mm

### Ambient conditions

Degree of protection	IP67
Ambient temperature	-30 ... +80 °C
Storage and transport temperature, minimum	-30 °C
Storage and transport temperature, maximum	+85 °C
Permissible installation altitude above sea level, maximum	2,000 m

## Ambient conditions - Insulation values

Rated insulation voltage $U_i$	250 VAC
Rated impulse withstand voltage $U_{imp}$	4 kV
Overtoltage category	III
Degree of pollution	3

## Electrical data

Thermal test current	10 A
Required rated short-circuit current	1,000 A
Switching element	NO contact, NC contact
Switching principle	slow action, positive break NC contact
Switching frequency	2,000 /h
Material of the contacts, electrical	Silver

## Electrical data - Safety contacts

Voltage, Utilisation category AC-15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	4 A

## Electrical data - Auxiliary contacts

Voltage, Utilisation category AC-15	230 VAC
Current, Utilisation category AC-15	4 A

Voltage, Utilisation category DC- 24 VDC

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Current, Utilisation category DC- 4 A

13

## Scope of delivery

Scope of delivery Not available as spare part  
Slot cover for dust-proof covering of the opening not in use

## Note

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.  
Actuating radius adjustable, minimum 50 mm, using an hexagonal key wrench SW 2 mm (a and b)  
The actuator is not available separately.

## Ordering code

Product type description:

AZ 17-(1)Z(2)I-(3)-(4)-(5)

(1)	
<b>11</b>	1 NO contacts/1 NC contact
<b>02</b>	2 NC contact
(2)	
<b>without</b>	Latching force 5 N
<b>R</b>	Latching force 30 N
(3)	
<b>without</b>	M16 cable gland
<b>ST</b>	M12 connector
(4)	
<b>B1</b>	Actuator B1
<b>B5</b>	Actuator B5

**B6L**

Actuator B6L

**B6R**

Actuator B6R

(5)

**1637**

Gold-plated contacts

## Pictures

### Product picture (catalogue individual photo)



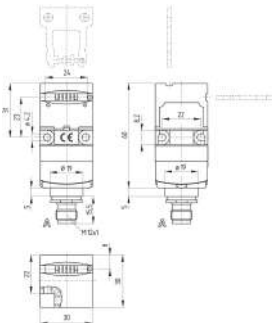
ID: kaz17fi2

| 281.9 kB | .jpg | 122.061 x 359.481 mm - 346 x 1019 px - 72 dpi

| 148.6 kB | .png | 74.083 x 218.017 mm - 210 x 618 px - 72 dpi

| 29.3 kB | .jpg | 41.981 x 123.472 mm - 119 x 350 px - 72 dpi

### Dimensional drawing basic component



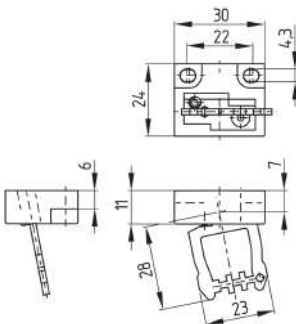
ID: kaz17gi2

| 111.5 kB | .cdr |

| 5.8 kB | .png | 74.083 x 86.783 mm - 210 x 246 px - 72 dpi

| 168.7 kB | .jpg | 352.425 x 413.456 mm - 999 x 1172 px - 72 dpi

### Dimensional drawing actuator



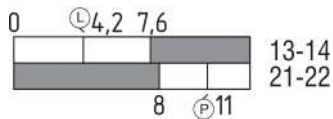
ID: 1az17b02

| 41.2 kB | .cdr |

| 148.6 kB | .jpg | 352.425 x 383.469 mm - 999 x 1087 px - 72 dpi

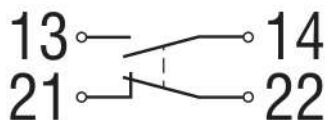
| 18.2 kB | .png | 74.083 x 80.433 mm - 210 x 228 px - 72 dpi

## Switch travel diagram



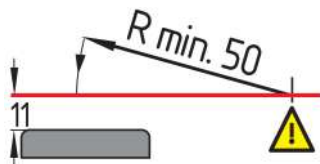
ID: kaz17s01  
| 19.6 kB | .cdr |  
| 2.0 kB | .png | 74.083 x 26.458 mm - 210 x 75 px - 72 dpi  
| 52.6 kB | .jpg | 352.778 x 125.236 mm - 1000 x 355 px - 72 dpi

## Diagram



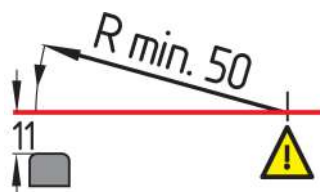
ID: k1o1sk01  
| 52.2 kB | .jpg | 352.778 x 143.581 mm - 1000 x 407 px - 72 dpi  
| 2.6 kB | .png | 74.083 x 29.986 mm - 210 x 85 px - 72 dpi

## Actuating radius



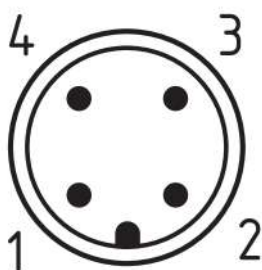
ID: kaz17r01  
| 19.8 kB | .cdr |  
| 3.2 kB | .png | 74.083 x 38.1 mm - 210 x 108 px - 72 dpi  
| 71.2 kB | .jpg | 352.778 x 180.622 mm - 1000 x 512 px - 72 dpi

## Actuating radius



ID: kaz17r02  
| 19.8 kB | .cdr |  
| 3.5 kB | .png | 74.083 x 44.45 mm - 210 x 126 px - 72 dpi  
| 84.0 kB | .jpg | 352.778 x 211.667 mm - 1000 x 600 px - 72 dpi

## Contact arrangement



ID: km12-k4c  
| 4.2 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi  
| 113.3 kB | .jpg | 352.778 x 352.778 mm - 1000 x 1000 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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