# DATASHEET



## AZ 17-02ZI-ST B6R

- Connector M12 x 1, 4-pole
- right-hand model
- For very smal 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 17-02ZI-ST B6R |
| Article number (order number) | 101144091 |
| EAN (European Article Number) | 4030661130903 |
| 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<br>cULus |

## General data

| | |
|---|---|
| Standards | EN ISO 13849-1<br>EN ISO 14119<br>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 | 115 g |

## General data - Features

| | |
|---|---|
| Number of actuating directions | 2 |
| Number of safety contacts | 2 |

### Safety classification

| | |
|---|---|
| Standards | EN ISO 13849-1<br>EN IEC 60947-5-1 |
| Performance Level, up to | c |
| Category | 1 |
| $B_{10D}$ Normally-closed contact (NC) | 2,000,000 Operations |
| Note | Electrical life on request. |
| 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) |

## Mechanical data

| | |
|---|---|
| Mechanical life, minimum | 1,000,000 Operations |
| Latching force | 5 N |
| Positive break travel | 11 mm |
| Positive break force per NC contact, minimum | 17 N |
| Actuating speed, maximum | 2 m/s |
| Mounting | Screws |
| Type of the fixing screws | 2x M5 |

## Mechanical data - Connection technique

| | |
|---|---|
| Termination | Connector plug M12, 4-pole, (A-coding) |

## 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 | -30 ... +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 |
| Overvoltage category | III |
| Degree of pollution | 3 |

## Electrical data

| | |
|---|---|
| Thermal test current | 10 A |
| Required rated short-circuit current | 1,000 A |
| Switching element | 2 NC contact |
| Switching principle | slow action, positive break NC contact |
| Maximum 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 |

## Scope of delivery

| | |
|---|---|
| Scope of delivery | Not available as spare part<br>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.<br>Actuating radius adjustable, minimum 50 mm, using an hexagonal key wrench SW 2 mm (a and b)<br>The actuator is not available separately. |

### Ordering code

Product type description:
AZ 17-(1)Z(2)I-(3)-(4)-(5)

(1)

| | |
|---|---|
| **11** | 1 NO contact/1 NC contact |
| **02** | 2 NC contact |

(2)

| | |
|---|---|
| **without** | Latching force 5 N |
| **R** | Latching force 30 N |

(3)

| | |
|---|---|
| **without** | M16 cable gland |
| **ST** | M12 connector |

(4)

| | |
|---|---|
| **B1** | Actuator B1 |
| **B5** | Actuator B5 |
| **B6L** | Actuator B6L |
| **B6R** | Actuator B6R |

(5)

| | |
|---|---|
| **1637** | Gold-plated contacts |

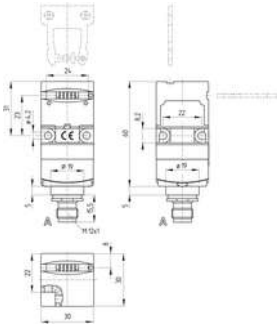
## Pictures

### Product picture (catalogue individual photo)



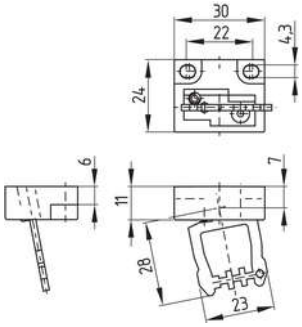
ID: kaz17fi2
| 281.9 kB | .jpg | 122.061 x 359.481 mm - 346 x 1019 px - 72 dpi
| 148.6 kB | .png | 74.083 x 218.017 mm - 210 x 618 px - 72 dpi
| 29.3 kB | .jpg | 41.981 x 123.472 mm - 119 x 350 px - 72 dpi

## Dimensional drawing basic component



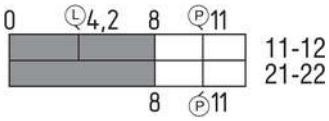
ID: kaz17gi2
| 111.5 kB | .cdr |
| 5.8 kB | .png | 74.083 x 86.783 mm - 210 x 246 px - 72 dpi
| 168.7 kB | .jpg | 352.425 x 413.456 mm - 999 x 1172 px - 72 dpi

## Dimensional drawing actuator



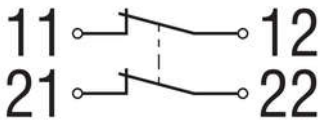

ID: 1az17b02
| 41.2 kB | .cdr |
| 148.6 kB | .jpg | 352.425 x 383.469 mm - 999 x 1087 px - 72 dpi
| 18.2 kB | .png | 74.083 x 80.433 mm - 210 x 228 px - 72 dpi

## Switch travel diagram



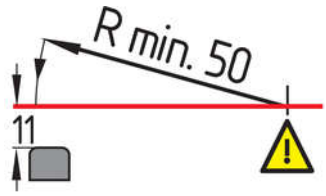

ID: kaz17s02
| 20.1 kB | .cdr |
| 2.0 kB | .png | 74.083 x 26.458 mm - 210 x 75 px - 72 dpi
| 55.6 kB | .jpg | 352.778 x 125.236 mm - 1000 x 355 px - 72 dpi

## Diagram



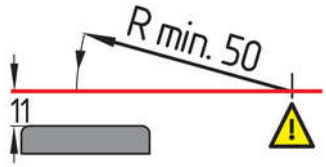

ID: k2o--k01
| 48.8 kB | .jpg | 352.778 x 125.236 mm - 1000 x 355 px - 72 dpi
| 2.3 kB | .png | 74.083 x 26.458 mm - 210 x 75 px - 72 dpi

## Actuating radius



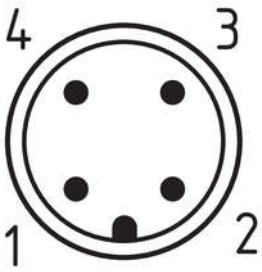

ID: kaz17r02
| 19.8 kB | .cdr |
| 3.5 kB | .png | 74.083 x 44.45 mm - 210 x 126 px - 72 dpi
| 84.0 kB | .jpg | 352.778 x 211.667 mm - 1000 x 600 px - 72 dpi

## 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

## 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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