



## AZ 17-02ZI-ST B1

- Connector M12 x 1, 4-pole
- Thermoplastic enclosure
- Double-insulated
- Long life
- 30 mm x 60 mm x 30 mm
- Particularly suitable for sliding doors
- 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 B1
Article number (order number)	101144078
EAN (European Article Number)	4030661130781
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 CCC
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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
Working principle	electromechanical
Housing material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Material of the actuator	Stainless steel
Gross weight	86 g

## General data - Features

Number of actuating directions	2
Number of safety contacts	2
Number of cable glands	1

## 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.
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
Overtoltage 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 Slot cover for dust-proof covering of the opening not in use
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### Note

Note (General)

The axis of the hinge must be 10 mm above and in a parallel plane to the top surface of the safety switch.

minimum actuating radius on rotating guard systems via the narrow edge of the actuator 140 mm

minimum actuating radius on hinged guards in line with the plane of the actuator 200 mm

The actuator is not available separately.

## Ordering code

Product type description:

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

(1)

**11** 1 NO contacts/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)**



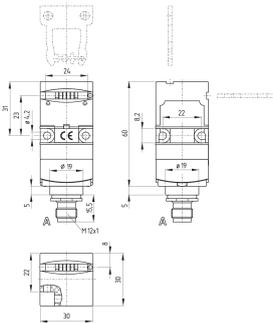
ID: kaz17f31

| 1.1 MB | .jpg | 352.778 x 1012.472 mm - 1000 x 2870 px - 72 dpi

| 120.5 kB | .png | 74.083 x 212.372 mm - 210 x 602 px - 72 dpi

| 27.0 kB | .jpg | 43.039 x 123.472 mm - 122 x 350 px - 72 dpi

## Dimensional drawing basic component



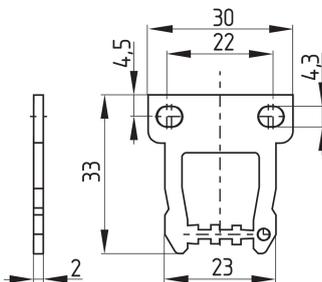
ID: kaz17gi2

| 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: 1az17b03

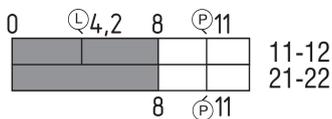
| 104.1 kB | .jpg | 352.778 x 309.386 mm - 1000 x 877 px - 72 dpi

| 5.4 kB | .png | 74.083 x 64.911 mm - 210 x 184 px - 72 dpi

| 13.8 kB | .png | 50.038 x 43.857 mm - 591 x 518 px - 300 dpi

| 27.1 kB | .jpg | 112.889 x 99.131 mm - 320 x 281 px - 72 dpi

## Switch travel diagram



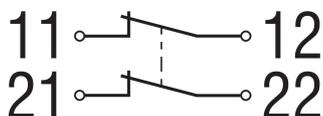
ID: kaz17s02

| 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

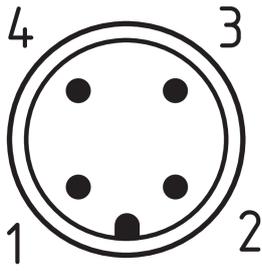


ID: k2o--k01

| 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

## 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

Schmersal India Pvt. Ltd., Plot No - G-7/1, Ranjangaon MIDC, Tal. - Shirur, Dist.- Pune 412 220

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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