



## AZ 17-11ZRK-ST

- Connector M12 x 1, 4-pole
- 30 mm x 78.5 mm x 30 mm
- Thermoplastic enclosure
- Double-insulated
- Long life
- small body
- Universal coding
- High level of contact reliability with low voltages and currents
- Insensitive to soiling
- 8 actuating planes

## Data

### Ordering data

|                               |                |
|-------------------------------|----------------|
| Product type description      | AZ 17-11ZRK-ST |
| Article number (order number) | 101140774      |
| EAN (European Article Number) | 4030661119731  |
| 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   |

### General data

|                                        |                                                                   |
|----------------------------------------|-------------------------------------------------------------------|
| Standards                              | EN ISO 13849-1<br>EN ISO 14119<br>EN IEC 60947-5-1                |
| Coding level according to EN ISO 14119 | Low                                                               |
| Working principle                      | electromechanical                                                 |
| Housing material                       | Plastic, glass-fibre reinforced thermoplastic, self-extinguishing |
| Gross weight                           | 85 g                                                              |

### General data - Features

|                                |     |
|--------------------------------|-----|
| Increased latching force       | Yes |
| Number of actuating directions | 2   |
| Number of auxiliary contacts   | 1   |
| Number of safety contacts      | 1   |
| 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.          |
| 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)                                      |

### 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                |
| Mounting                                     | Screws               |
| Type of the fixing screws                    | 2x M4                |

### 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 | 78.5 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

Rated impulse withstand voltage, connector 4-pole 2.5 kV

## Electrical data

Thermal test current 10 A

Required rated short-circuit current 1,000 A

Switching element 1 NO contact, 1 NC contacts

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

Note, Utilisation category DC-13 Connector 4-pole

## Electrical data - Auxiliary contacts

Voltage, Utilisation category AC-15 230 VAC

Current, Utilisation category AC- 4 A  
15

Voltage, Utilisation category DC- 24 VDC  
13

Current, Utilisation category DC- 4 A  
13

Note, Utilisation category DC-13 Connector 4-pin

Other data

Note (applications)

sliding safety guard  
removable guard  
hinged safety guard

Scope of delivery

Scope of delivery

Actuator must be ordered separately.  
Slot cover for dust-proof covering of the opening not in use

Note

Note (General)

Individual coding available on request

Ordering code

Product type description:  
AZ 17-(1)Z(2)K-(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           |

|        |                       |
|--------|-----------------------|
| 2243   | Front cable entry     |
| 2243-1 | Rear cable entry      |
| ST     | M12 connector, 4 pole |

(4)

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

(5)

|    |                  |
|----|------------------|
| 5M | Cable length 5 m |
| 6M | Cable length 6 m |

Pictures

Product picture (catalogue individual photo)



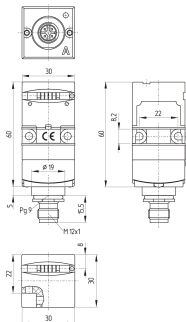
ID: kaz17f17

| 651.2 kB | .jpg | 221.192 x 478.367 mm - 627 x 1356 px - 72 dpi

| 106.0 kB | .png | 74.083 x 160.161 mm - 210 x 454 px - 72 dpi

| 45.6 kB | .jpg | 57.15 x 123.472 mm - 162 x 350 px - 72 dpi

Dimensional drawing basic component



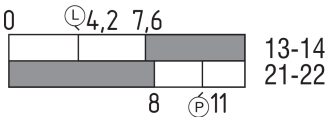
ID: kaz17g03

| 44.7 kB | .cdr |

| 8.1 kB | .png | 74.083 x 131.586 mm - 210 x 373 px - 72 dpi

| 265.7 kB | .jpg | 352.778 x 626.533 mm - 1000 x 1776 px - 72 dpi

Switch travel diagram



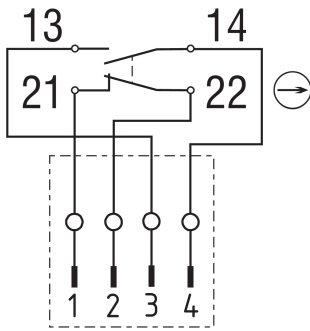
ID: kaz17s01

| 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

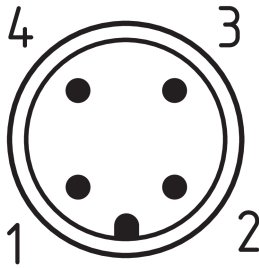


ID: kaz17k03

| 104.8 kB | .jpg | 352.778 x 369.358 mm - 1000 x 1047 px - 72 dpi

| 4.1 kB | .png | 73.731 x 77.258 mm - 209 x 219 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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