



## AZ 17-02ZRK-1637

- cable gland M16
- 30 mm x 60 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 17-02ZRK-1637
Article number (order number)	101153121
EAN (European Article Number)	4030661168074
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 UKCA
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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	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 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	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 M5
Tightening torque of the fastening screws for the housing cover, minimum	0.7 Nm
Tightening torque of the fastening screws for the housing cover, maximum	1 Nm
Note	Torx T10

## Mechanical data - Connection technique

Cable entry	M 16 x 1.5
Termination	IDC method of termination
Cable section, minimum	0.75 mm <sup>2</sup>
Cable section, maximum	1 mm <sup>2</sup>
Allowed type of cable	flexible

## Mechanical data - Dimensions

Length of sensor	30 mm
Width of sensor	30 mm
Height of sensor	60 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	Gold-plated silver (AgNi 15 + Au 0,3 $\mu$ m)

### 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

### Other data

Note (applications)	sliding safety guard removable guard hinged safety guard
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## Scope of delivery

Scope of delivery	Actuator must be ordered separately. Slot sealing plugs Slot cover for dust-proof covering of the opening not in use
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## Note

Note (General)	This type termination (IDC) method enables simple connection of flexible conductors without the need for the use of conductor ferrules
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## Ordering code

Product type description:  
AZ 17-(1)Z(2)K-(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>2243</b>		Front cable entry
<b>2243-1</b>		Rear cable entry
<b>ST</b>		M12 connector, 4 pole
(4)		
<b>1637</b>		Gold-plated contacts
(5)		
<b>5M</b>		Cable length 5 m
<b>6M</b>		Cable length 6 m

# Pictures

## Product picture (catalogue individual photo)



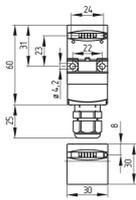
ID: kaz17f16

| 670.2 kB | .jpg | 221.192 x 529.167 mm - 627 x 1500 px - 72 dpi

| 125.7 kB | .png | 74.083 x 177.094 mm - 210 x 502 px - 72 dpi

| 38.2 kB | .jpg | 51.506 x 123.472 mm - 146 x 350 px - 72 dpi

## Dimensional drawing basic component



ID: 1az17g01

| 32.7 kB | .cdr |

| 3.7 kB | .png | 74.083 x 51.858 mm - 210 x 147 px - 72 dpi

| 67.0 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701 px - 72 dpi

## Switch travel diagram



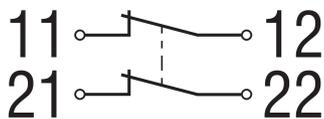
ID: kaz17s02

| 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

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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