



AZ 16-03ZVRK-1637

- 3 cable entries M 16 x 1.5
- Large wiring compartment
- Thermoplastic enclosure
- Double-insulated
- 52 mm x 90 mm x 30 mm
- Universal coding
- Long life
- High level of contact reliability with low voltages and currents
- Insensitive to soiling
- Slotted holes for adjustment, circular holes for location

Data

Ordering data

Product type description	AZ 16-03ZVRK-1637
Article number (order number)	101139313
EAN (European Article Number)	4030661649146

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
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Coding level according to EN ISO 14119 Low

Working principle	electromechanical
Housing material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Gross weight	120 g

General data - Features

Number of actuating directions	3
Number of safety contacts	3
Number of cable glands	3

Safety classification

Standards	EN ISO 13849-1
Performance Level, up to	c
Category	1
B _{10D} Normally-closed contact (NC)	2,000,000 Operations
Note	Electrical life on request.
B _{10D} Normally-open contact (NO)	1,000,000 Operations
Note	at 10% I _e 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	8 mm
Positive break force per NC contact, minimum	10 N
Positive break force, minimum	30 N
Actuating speed, maximum	2 m/s
Mounting	Screws
Type of the fixing screws	2x M6

Mechanical data - Connection technique

Cable entry	3 x M16 x 1,5
Termination	Screw terminals
Cable section, minimum	0.25 mm ²
Cable section, maximum	2.5 mm ²
Note	All indications including the conductor ferrules.
Allowed type of cable	solid single-wire solid multi-wire flexible

Mechanical data - Dimensions

Length of sensor	30 mm
Width of sensor	52 mm
Height of sensor	90 mm

Ambient conditions

Degree of protection	IP67
Ambient temperature	-30 ... +80 °C
Storage and transport temperature	-40 ... +85 °C
Permissible installation altitude above sea level, maximum	2,000 m

Ambient conditions - Insulation values

Rated insulation voltage U_i	500 V
Rated impulse withstand voltage U_{imp}	6 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	3 NC contact
Switching principle	slow action, positive break NC contact
Maximum switching frequency	4,000 /h
Material of the contacts, electrical	Gold-plated silver (AgNi 15 + Au 0,3 μ 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

Electrical data - Auxiliary contacts

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

Voltage, Utilisation category DC- 24 VDC

13

Current, Utilisation category DC- 4 A

13

Scope of delivery

Scope of delivery

Slot covers for dust-proof covering of the openings not in use

Ordering code

Product type description:

AZ 16-(1)ZV(2)K-(3)-(4)-(5)

(1)

without

1 NO contacts/1 NC contact

02

2 NC contact

03

3 NC contact

12

1 NO contact/2 NC contacts

(2)

without

Ejection force

R

Latching force 30 N

(3)

G24

with LED (only available for version with one NO and one NC contact)

(4)

M16

cable entry M16

M20

Cable entry M20

ST

Connector M12, 4 pole, bottom

STL

Connector M12, 4 pole, left

STR

Connector M12, 4 pole, right

(5)

2254

Latching force 5 N

1762

Front mounting

1637

Gold-plated contacts

Pictures

Product picture (catalogue individual photo)



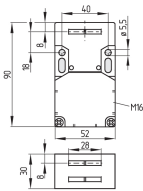
ID: kaz16f01

| 471.8 kB | .jpg | 165.806 x 268.817 mm - 470 x 762 px - 72 dpi

| 115.4 kB | .png | 74.083 x 119.944 mm - 210 x 340 px - 72 dpi

| 74.5 kB | .jpg | 76.2 x 123.472 mm - 216 x 350 px - 72 dpi

Dimensional drawing basic component



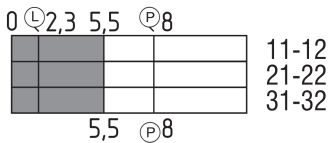
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| 28.1 kB | .cdr |

| 3.1 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi

| 62.3 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 px - 72 dpi

Switch travel diagram



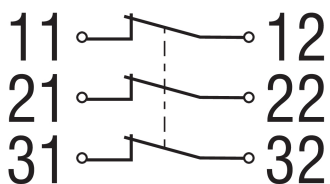
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| 20.6 kB | .cdr |

| 2.1 kB | .png | 74.083 x 31.75 mm - 210 x 90 px - 72 dpi

| 67.0 kB | .jpg | 352.778 x 150.636 mm - 1000 x 427 px - 72 dpi

Diagram



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| 81.6 kB | .jpg | 352.778 x 210.961 mm - 1000 x 598 px - 72 dpi

| 3.6 kB | .jpg | 35.278 x 35.278 mm - 100 x 100 px - 72 dpi

| 3.4 kB | .png | 74.083 x 44.45 mm - 210 x 126 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.

