



AZ 16-03ZVRK-M16

- 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-M16 |
| Article number (order number) | 101154220 |
| EAN (European Article Number) | 4030661171579 |
| 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 | TÜV cULus CCC UKCA |
|--------------|-----------------------------|

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 | 115 g |

General data - Features

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|--------------------------------|---|
| 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

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|------------------|-------|
| 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 |
| Overtoltage 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 | 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 |

Electrical data - Auxiliary contacts

Voltage, Utilisation category AC- 230 VAC
15

Current, Utilisation category AC- 4 A
15

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 contact/1 NC contact |
| 02 | 2 NC contact |
| 03 | 3 NC contact |
| 12 | 1 NO contact/2 NC contacts |

(2)

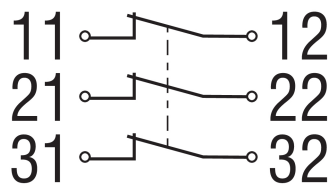
| | |
|----------------|---------------------|
| without | Ejection force |
| R | Latching force 30 N |

(3)

| | |
|------------|----------------------------------------------------------------------|
| G24 | with LED (only available for version with one NO and one NC contact) |
|------------|----------------------------------------------------------------------|

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| | |
|------------|-----------------|
| M16 | cable entry M16 |
| M20 | Cable entry M20 |



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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.

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