



AZ 16-02ZVK-M16

- 3 cable entries M 16 x 1.5
- 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

Approvals - Standards

| | |
|--------------|--------------|
| Certificates | cULus CCC |
|--------------|--------------|

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 |
| Enclosure material | Plastic, glass-fibre reinforced thermoplastic, self-extinguishing |
| Gross weight | 115 g |

General data - Features

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|---------------------------|-----|
| Ejection force | Yes |
| Number of cable glands | 3 |
| Number of safety contacts | 2 |

Safety classification

| | |
|--------------|----------------|
| Standards | EN ISO 13849-1 |
| Mission time | 20 Year(s) |

Safety classification - Safety outputs

| | |
|---|----------------------|
| B _{10D} Normally-closed contact (NC) | 2,000,000 Operations |
|---|----------------------|

Mechanical data

| | |
|--|----------------------|
| Mechanical life, minimum | 1,000,000 Operations |
| Positive break travel | 8 mm |
| Positive break force per NC contact, minimum | 10 N |
| Positive break force, minimum | 20 N |
| Actuating speed, maximum | 2 m/s |
| Mounting | Screws |
| Type of the fixing screws | 2x M6 |

Mechanical data - Connection technique

| | |
|------------------------|---|
| Termination | Screw terminals |
| Cable entry | 3 x M16 x 1,5 |
| Cable section, minimum | 0.25 mm ² |
| Cable section, maximum | 2.5 mm ² |
| Note (Cable section) | 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, minimum | -40 °C |
| Storage and transport temperature, maximum | +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 | Opener (NC) |
| Switching principle | slow action, positive break NC contact |
| 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 |

Scope of delivery

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Actuator must be ordered separately.

Pictures

Product picture (catalogue individual photo)

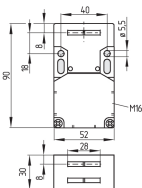


ID: kaz16f01

| 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

Dimensional drawing basic component



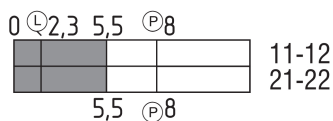
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| 28.1 kB | .cdr |

| 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



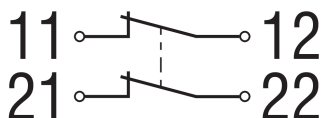
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| 20.1 kB | .cdr |

| 2.1 kB | .png | 74.083 x 26.106 mm - 210 x 74 px - 72 dpi

| 56.2 kB | .jpg | 352.778 x 123.472 mm - 1000 x 350 px - 72 dpi

Diagram



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| 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

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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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