



AZ 16-02ZVRK-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

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

| | |
|---------------------------|---|
| 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 |
| Latching force | 30 N |
| 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} | 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 | 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 |

Documents

Operating instructions (supplementary sheet/quick guide)

Mounting set MS-AZ 15/16 (138.2 kB, 10/05/2019, Revision C)

Operating instructions and Declaration of conformity

AZ 15/16 (411.7 kB, 08/07/2021, W)

Operating Instructions and Declaration of Conformity (Short)

Operating instructions in short form (For further information and languages, see the "Operation and assembly" tab) (410.7 kB, 26/10/2022)

CCC certification

AZ 15 / AZ 16 / AZ 17 / AZ 335 / AZ 355 (1.6 MB, 26/08/2022)

UL Certificate

AZ 10 / AZ 15 / AZ 16 / AZ 20 (413.2 kB, 01/08/2019)

SISTEMA-VDMA library

(659.5 kB, 23/03/2023)

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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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