



AZ16ZVRK-M20

- 3 cable entries M 20 x 1.5
- LED version available
- 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 | AZ16ZVRK-M20 |
| Article number (order number) | 161157379 |
| 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 |
|--------------|---------------------|

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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|------------------------------|---|
| Number of auxiliary contacts | 1 |
| Number of cable glands | 3 |
| Number of safety contacts | 1 |

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 |
| B _{10D} Normally open contact (NO) | 1,000,000 Operations |
| Note (B _{10D} Normally open contact (NO)) | at 10% I _e and ohmic load |

Mechanical data

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|--------------------------|----------------------|
| 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 | 10 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 M20 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 |
| 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

Overtoltage category III

Degree of pollution 3

Electrical data

Thermal test current 10 A

Required rated short-circuit current 1,000 A

Switching element NO contact, NC contact

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

Electrical data - Auxiliary 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

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)

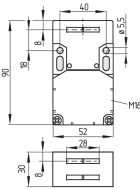


ID: kaz16f01

| 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

Dimensional drawing basic component



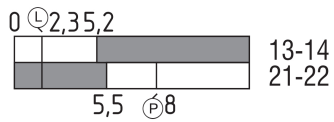
ID: laz16g01

| 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



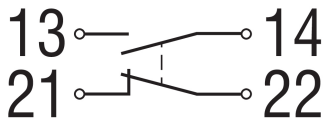
ID: kaz16s01

| 19.8 kB | .cdr |

| 2.0 kB | .png | 74.083 x 25.753 mm - 210 x 73 px - 72 dpi

| 52.0 kB | .jpg | 352.778 x 123.119 mm - 1000 x 349 px - 72 dpi

Diagram



ID: k1o1sk01

| 52.2 kB | .jpg | 352.778 x 143.581 mm - 1000 x 407 px - 72 dpi

| 2.6 kB | .png | 74.083 x 29.986 mm - 210 x 85 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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