



## AZ16-02ZVK-M20

- Long life
- Multiple coding
- Double-insulated
- 52 mm x 90 mm x 30 mm
- Insensitive to soiling
- Thermoplastic enclosure
- Slotted holes for adjustment, circular holes for location
- High level of contact reliability with low voltages and currents

## Data

### Ordering data

|                               |                |
|-------------------------------|----------------|
| Product type description      | AZ16-02ZVK-M20 |
| Article number (order number) | 101157377      |
| EAN (European Article Number) | 4030661180076  |
| eCl@ss number, Version 9.0    | 27-27-26-02    |
| eCl@ss number, Version 11.0   | 27-27-26-02    |

### Approval - Standards

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

### General data

|                                      |                                                                   |
|--------------------------------------|-------------------------------------------------------------------|
| Product name                         | AZ 16                                                             |
| Coding level according to ISO 14119  | Low                                                               |
| Enclosure material                   | Plastic, glass-fibre reinforced thermoplastic, self-extinguishing |
| Material of the contacts, electrical | Silver                                                            |
| Gross weight                         | 110 g                                                             |

### General data - Features

|                           |     |
|---------------------------|-----|
| Ejection force            | Yes |
| Number of safety contacts | 2   |

## Safety appraisal

|              |              |
|--------------|--------------|
| Standards    | BG-GS-ET-15  |
|              | ISO 13849-1  |
|              | EN 60947-5-1 |
| Mission Time | 20 Year(s)   |

## Safety appraisal - Safety outputs

|                                   |                      |
|-----------------------------------|----------------------|
| B10d 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, minimum | 10 N                 |
| Actuating speed, maximum      | 2 m/s                |

## Mechanical data - Connection technique

|                        |                                                                               |
|------------------------|-------------------------------------------------------------------------------|
| Terminal Connector     | Screw terminals                                                               |
| Cable section, minimum | 0.25 mm <sup>2</sup>                                                          |
| Cable section, maximum | 2.5 mm <sup>2</sup>                                                           |
| Note (Cable section)   | All indications about the cable section are including the conductor ferrules. |

## Mechanical data - Dimensions

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

## Ambient conditions

|                              |                       |
|------------------------------|-----------------------|
| Degree of protection         | IP 67 to IEC/EN 60529 |
| Ambient temperature, minimum | -30 °C                |
| Ambient temperature, maximum | +80 °C                |

## Ambient conditions - Insulation value

|                                                  |      |
|--------------------------------------------------|------|
| Rated impulse withstand voltage U <sub>imp</sub> | 6 kV |
|--------------------------------------------------|------|

## Electrical data

|                      |                       |
|----------------------|-----------------------|
| Thermal test current | 10 A                  |
| Switching element    | Opener (NC)           |
| Switching principle  | Creep circuit element |

### Electrical data - Safety contacts

|                                     |         |
|-------------------------------------|---------|
| Voltage, Utilisation category AC15  | 230 VAC |
| Current, Utilisation category AC-15 | 4 A     |
| Voltage, Utilisation category DC13  | 24 VDC  |
| Current, Utilisation category DC13  | 4 A     |

### Electrical data - Auxiliary contacts

|                                     |         |
|-------------------------------------|---------|
| Voltage, Utilisation category AC15  | 230 VAC |
| Current, Utilisation category AC-15 | 4 A     |
| Voltage, Utilisation category DC13  | 24 VDC  |
| Current, Utilisation category DC13  | 4 A     |

### Scope of delivery

|                      |                                       |
|----------------------|---------------------------------------|
| Included in delivery | Actuators must be ordered separately. |
|----------------------|---------------------------------------|

### 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)

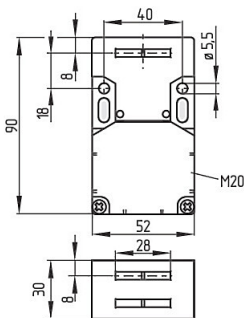


ID: kaz16f01

| 471,8 kB | .jpg | 165.806 x 268.817 mm - 470 x 762  
Pixel - 72 dpi

| 115,4 kB | .png | 74.083 x 119.944 mm - 210 x 340  
Pixel - 72 dpi

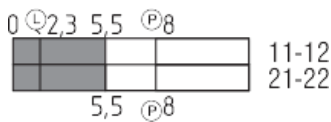
Dimensional drawing basic component



ID: 1az16g05

| 140,4 kB | .jpg | 352.425 x 444.147 mm - 999 x 1259  
Pixel - 72 dpi

Switch travel diagram



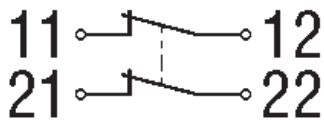
ID: kaz16s02

| 2,1 kB | .png | 74.083 x 26.106 mm - 210 x 74 Pixel -  
72 dpi

| 56,2 kB | .jpg | 352.778 x 123.472 mm - 1000 x 350  
Pixel - 72 dpi

| 20,1 kB | .cdr |

Diagram



ID: k2o--k01

| 48,8 kB | .jpg | 352.778 x 125.236 mm - 1000 x 355  
Pixel - 72 dpi

| 1,4 kB | .png | 74.083 x 26.458 mm - 210 x 75 Pixel -  
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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