



## AZ 16-02ZVK-M20

- 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

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

|                                      |                                                                   |
|--------------------------------------|-------------------------------------------------------------------|
| 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 cable glands    | 3   |
| Number of safety contacts | 2   |

## Safety appraisal

|              |                                               |
|--------------|-----------------------------------------------|
| Standards    | BG-GS-ET-15<br>EN ISO 13849-1<br>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 entry            | 3 x M20 x 1,5                                                                 |
| 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         | IP67 to EN 60529 |
| Ambient temperature, minimum | -30 °C           |
| Ambient temperature, maximum | +80 °C           |

## Ambient conditions - Insulation value

|                                           |       |
|-------------------------------------------|-------|
| Rated insulation voltage $U_i$            | 500 V |
| Rated impulse withstand voltage $U_{imp}$ | 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 |
|------------------------------------|---------|

