



## AZ 16 ZVRK-M16

- 3 cable entries M 16 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

### 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 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<sub>10D</sub> Normally-closed contact (NC) 2,000,000 Operations

B<sub>10D</sub> Normally open contact (NO) 1,000,000 Operations

Note (B<sub>10D</sub> Normally open contact (NO)) at 10% I<sub>e</sub> and ohmic load

### 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

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<sup>2</sup>

Cable section, maximum 2.5 mm<sup>2</sup>

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	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

## 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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