



AZ 16-02ZVK-ST

- Connector M12, 4-pole
- 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	120 g

General data - Features

Ejection force	Yes
Number of cable glands	3
Number of safety contacts	2

Safety classification

Standards	EN ISO 13849-1
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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

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 Connector plug M12, 4-pole, (A-coding)

Cable entry 3 x M16 x 1,5

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
Overvoltage category	III
Degree of pollution	3
Rated impulse withstand voltage, connector 4-pole	2.5 kV

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
Note, Utilisation category DC-13	Connector 4-pole

Electrical data - Auxiliary contacts

Note, Utilisation category DC-13	Connector 4-pin
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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)

Schmersal India Pvt. Ltd., Plot No - G-7/1, Ranjangaon MIDC, Tal. - Shirur, Dist.- Pune 412 220

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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