DATASHEET



AZ 16 ZVRK-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	AZ 16 ZVRK-M20
Article number (order number)	101157379
EAN (European Article Number)	4030661180090
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	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
Housing material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Gross weight	115 g

General data - Features

Number of actuating directions	3
Number of auxiliary contacts	1
Number of safety contacts	1
Number of cable glands	3

Safety classification

Standards	EN ISO 13849-1
Performance Level, up to	c
Category	1
B_{10D} Normally-closed contact (NC)	2,000,000 Operations
Note	Electrical life on request.
B_{10D} Normally-open contact (NO)	1,000,000 Operations
Note	at 10% I_e and ohmic load
Mission time	20 Year(s)

Safety classification - Fault exclusion

Please note:	Can be used when fault exclusion for dangerous damage to the 1-channel mechanism is permissible and sufficient protection against manipulation is guaranteed.
Performance Level, up to	d
Category	3

Note	for 2-channel use and with suitable logic unit.
Mission time	20 Year(s)

Mechanical data

Mechanical lifetime, 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

Type of electrical connection	Screw terminals M20 x 1.5
Cable entry	3 x M16 x 1,5
Termination	Screw terminals
Cable section, minimum	0.25 mm²
Cable section, maximum	2.5 mm²
Note	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	-40 ... +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
Overvoltage category	III
Degree of pollution	3

Electrical data

Thermal test current	10 A
Required rated short-circuit current	1,000 A
Switching element	1 NO contact, 1 NC contacts
Switching principle	slow action, positive break NC contact
Maximale Schalthäufigkeit	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

Scope of delivery	Actuator must be ordered separately.

Ordering code

Product type description:
AZ 16-(1)ZV(2)K-(3)-(4)-(5)

(1)

without	1 NO contact/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

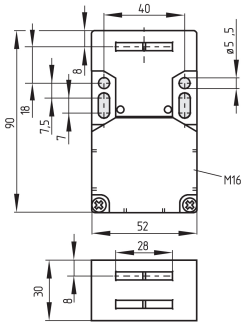
Pictures

Product picture (catalogue individual photo)



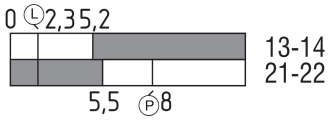
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| 919.0 kB | .jpg | 352.778 x 571.8530000000001 mm - 1000 x 1621 px - 72 dpi
| 130.4 kB | .png | 74.083 x 119.944 mm - 210 x 340 px - 72 dpi
| 47.6 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi
| 10.0 MB | .png | 166.55700000000002 x 269.99 mm - 2000 x 3242 px - 305 dpi

Dimensional drawing basic component



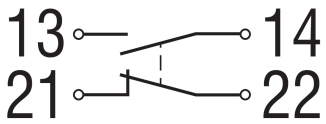
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| 10.0 kB | .png | 73.73100000000001 x 99.131 mm - 209 x 281 px - 72 dpi

Switch travel diagram



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| 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 143.58100000000002 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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