



AZM 170-02ZKA-ST 24VAC/DC

- Thermoplastic enclosure
- Double-insulated
- Compact design
- Interlock with protection against incorrect locking.
- Long life
- High holding force

Data

Ordering data

Product type description	AZM 170-02ZKA-ST 24VAC/DC
Article number (order number)	101176751
EAN (European Article Number)	4030661307220
eCl@ss number, version 12.0	27-27-26-03
eCl@ss number, version 11.0	27-27-26-03
eCl@ss number, version 9.0	27-27-26-03
ETIM number, version 7.0	EC002593
ETIM number, version 6.0	EC002593

Approvals - Standards

Certificates	IFA cULus CCC
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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	280 g

General data - Features

Power to lock	Yes
Manual release	Yes
Number of actuating directions	2
Number of safety contacts	2

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)
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Mechanical data

Mechanical life, minimum	1,000,000 Operations
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Holding force F_{Zh} in accordance with EN ISO 14119	1,000 N
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Holding force F_{max} , maximum	1,300 N
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Latching force	5 N
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Positive break travel	11 mm
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Positive break force per NC contact, minimum	8.5 N
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Positive break force, minimum	17 N
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Actuating speed, maximum	2 m/s
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Mounting	Screws
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Type of the fixing screws	2x M5
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Tightening torque of the fastening screws for the housing cover, minimum	0.7 Nm
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Tightening torque of the fastening screws for the housing cover, maximum	1 Nm
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Note	Torx T10
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Mechanical data - Connection technique

Cable entry	1 x M20 x 1,5
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Termination	Connector plug M12, 4-pole, (A-coding) IDC method of termination
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Cable section, minimum	0.75 mm ²
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Cable section, maximum	1 mm ²
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Allowed type of cable	flexible
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Mechanical data - Dimensions

Length of sensor	30 mm
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Width of sensor	90 mm
Height of sensor	75.5 mm

Ambient conditions

Degree of protection	IP67
Ambient temperature	-25 ... +60 °C
Storage and transport temperature	-25 ... +85 °C
Note (Relative humidity)	non-condensing non-icing
Protection class	II
Permissible installation altitude above sea level, maximum	2,000 m

Ambient conditions - Insulation values

Rated insulation voltage U_i	250 VAC
Rated impulse withstand voltage U_{imp}	4 kV
Overvoltage category	III
Degree of pollution	3

Electrical data

Thermal test current	4 A
Rated control voltage	24 VAC/DC
Required rated short-circuit current	1,000 A
Electrical power consumption, maximum	12 W
Switching element	2 NC contact
Note (Switching element)	Change-over contact with double break, type Zb or 2 NC contacts, with galvanically separated contact bridges
Switching principle	slow action, positive break NC contact
Maximum switching frequency	1,000 /h
Material of the contacts, electrical	Silver

Electrical data - Magnet control

Magnet switch-on time	100 %
Test pulse duration, maximum	5 ms
Test pulse interval, minimum	50 ms

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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Other data

Note (applications)	sliding safety guard removable guard hinged safety guard
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Scope of delivery

Scope of delivery	Actuator must be ordered separately. Slot sealing plugs
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Note

Note (General)	This type termination (IDC) method enables simple connection of flexible conductors without the need for the use of conductor ferrules
Note (Manual release)	For manual release using M5 triangular key, available as accessory

Ordering code

Product type description:

AZM 170(1)-(2)Z(3)K(4)-(5)-(6)-(7)-(8)

(1)	
without	Cut clamps
SK	Screw connection
(2)	
11	1 NO contact/1 NC contact
02	2 NC contact
(3)	
without	Latching force 5 N
R	Latching force 30 N
(4)	
without	Power to unlock
A	Power to lock
(5)	
without	Cable entry M20
ST	2 connector, M12, 4-pin
ST-2431	As well as ST; individual solenoid monitoring
ST8	Connector M12 8-pole
(6)	
24VAC/DC	Us 24 VAC/DC
110VAC	Us 110 VAC
230VAC	Us 230 VAC
(7)	
1637	Gold-plated contacts
(8)	
without	Manual release

Pictures

Product picture (catalogue individual photo)



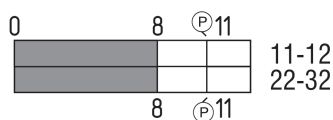
ID: kazm1f85

| 469.1 kB | .jpg | 352.778 x 325.261 mm - 1000 x 922 px - 72 dpi

| 41.0 kB | .png | 74.083 x 68.439 mm - 210 x 194 px - 72 dpi

| 64.2 kB | .jpg | 123.472 x 113.947 mm - 350 x 323 px - 72 dpi

Switch travel diagram



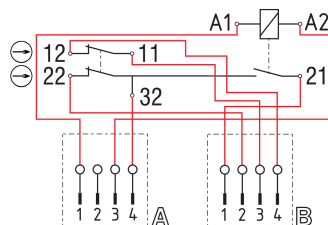
ID: kazm1s01

| 19.5 kB | .cdr |

| 1.8 kB | .png | 74.083 x 26.458 mm - 210 x 75 px - 72 dpi

| 49.4 kB | .jpg | 352.778 x 125.236 mm - 1000 x 355 px - 72 dpi

Diagram



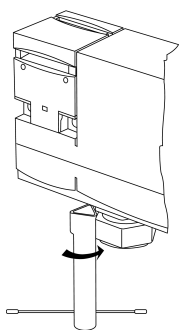
ID: kazm1k22

| 46.9 kB | .cdr |

| 135.9 kB | .jpg | 352.778 x 240.947 mm - 1000 x 683 px - 72 dpi

| 5.6 kB | .png | 74.083 x 50.447 mm - 210 x 143 px - 72 dpi

Operating principle



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| 213.5 kB | .jpg | 352.778 x 656.519 mm - 1000 x 1861 px - 72 dpi

| 6.5 kB | .png | 74.083 x 137.583 mm - 210 x 390 px - 72 dpi

