



AZM 170SK-02/01ZK-2197 24VAC/DC

- 1 Cable entry M 20 x 1.5
- Manual release from side
- Screw connection
- Thermoplastic enclosure
- Double-insulated
- Compact design
- Interlock with protection against incorrect locking.
- Long life
- High holding force

Data

Ordering data

Product type description	AZM 170SK-02/01ZK-2197 24VAC/DC
Article number (order number)	101182776
EAN (European Article Number)	4030661318202
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	300 g

General data - Features

Power to unlock	Yes
Manual release	Yes
Number of actuating directions	2
Number of safety contacts	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)
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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	Screw terminals
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Cable section, minimum	0.25 mm ²
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Cable section, maximum	1.5 mm ²
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Note	All indications including the conductor ferrules.
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Allowed type of cable	solid single-wire solid multi-wire flexible
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Mechanical data - Dimensions

Length of sensor	30 mm
Width of sensor	108 mm
Height of sensor	100.5 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

Rated control voltage	24 VAC/DC
Required rated short-circuit current	1,000 A
Electrical power consumption, maximum	12 W
Switching element	Magnet: 2 NC contacts / Actuator: 1 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

Electrical data - Auxiliary contacts

Voltage, Utilisation category AC-15	230 VAC
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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 (Manual release)	right bottom For manual release using M5 triangular key, available as accessory Additional manual release on side For manual release using triangular key M3 (included in delivery)
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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

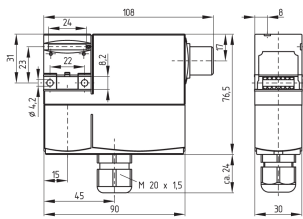
Pictures

Product picture (catalogue individual photo)



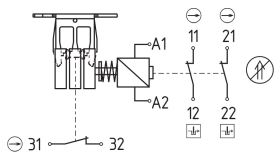
ID: kazm1f10
| 491.5 kB | .jpg | 243.769 x 229.658 mm - 691 x 651 px - 72 dpi
| 50.6 kB | .png | 74.083 x 69.85 mm - 210 x 198 px - 72 dpi
| 87.0 kB | .jpg | 123.472 x 116.417 mm - 350 x 330 px - 72 dpi

Dimensional drawing basic component



ID: 1azm1g07
| 44.4 kB | .cdr |
| 10.1 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi
| 126.8 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695 px - 72 dpi

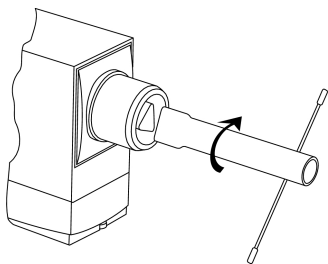
Diagram



11	12	21	22	31	32	A1	A2
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ID: kazm1k85
| 76.3 kB | .ai | 210.002 x 297 mm - 595 x 841 px - 72 dpi
| 92.1 kB | .jpg | 352.778 x 224.014 mm - 1000 x 635 px - 72 dpi
| 4.3 kB | .png | 74.083 x 46.919 mm - 210 x 133 px - 72 dpi

Operating principle



ID: kazm1a71
| 113.1 kB | .jpg | 352.778 x 280.811 mm - 1000 x 796 px - 72 dpi
| 4.6 kB | .png | 74.083 x 58.914 mm - 210 x 167 px - 72 dpi

