



AZM 170-02ZRK-ST-2197 230VAC

- Manual release from side
- Connector M12, 4-pole
- Thermoplastic enclosure
- Double-insulated
- Compact design
- Interlock with protection against incorrect locking.
- Long life
- High holding force

Data

Ordering data

Product type description	AZM 170-02ZRK-ST-2197 230VAC
Article number (order number)	101141432
EAN (European Article Number)	4030661121987
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	BG 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	273 g

General data - Features

Power to unlock	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)

Mechanical data

Mechanical life, minimum	1,000,000 Operations
Holding force F_{Zh} in accordance with EN ISO 14119	1,000 N
Holding force F_{max} , maximum	1,300 N
Latching force	30 N
Positive break travel	11 mm
Positive break force per NC contact, minimum	8.5 N
Positive break force, minimum	17 N
Actuating speed, maximum	2 m/s
Mounting	Screws
Type of the fixing screws	2x M5
Tightening torque of the fastening screws for the housing cover, minimum	0.7 Nm
Tightening torque of the fastening screws for the housing cover, maximum	1 Nm
Note	Torx T10

Mechanical data - Connection technique

Termination	Connector plug M12, 4-pole, (A-coding) Connector plug M12, 4-pole, (B-coding)
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Mechanical data - Dimensions

Length of sensor	30 mm
Width of sensor	108 mm
Height of sensor	75.5 mm

Ambient conditions

Degree of protection	IP67
Ambient temperature	-25 ... +60 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+85 °C
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}	2.5 kV
Overvoltage category	III
Degree of pollution	3

Electrical data

Thermal test current	4 A
Rated control voltage	230 VAC
Required rated short-circuit current	1,000 A
Electrical power consumption, maximum	12 W
Switching element	Opener (NC)
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
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

Other data

Note (applications) sliding safety guard
removable guard
hinged safety guard

Scope of delivery

Scope of delivery Actuator must be ordered separately.

Note

Note (Manual release) right
bottom
For manual release using M5 triangular key, available as accessory
Additional manual release on side

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 contacts/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
2197	Manual release from side (Standard in case of conector and power to unlock versions)

Pictures

Product picture (catalogue individual photo)



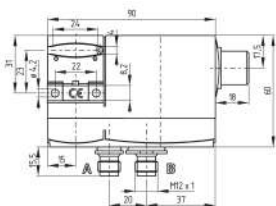
ID: kazm1f05

| 385.7 kB | .jpg | 292.806 x 226.131 mm - 830 x 641 px - 72 dpi

| 34.1 kB | .png | 74.083 x 57.15 mm - 210 x 162 px - 72 dpi

| 55.1 kB | .jpg | 123.472 x 95.25 mm - 350 x 270 px - 72 dpi

Dimensional drawing basic component



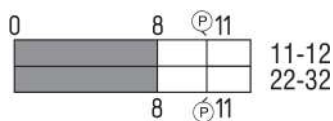
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| 44.0 kB | .cdr |

| 9.1 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi

| 117.4 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695 px - 72 dpi

Switch travel diagram



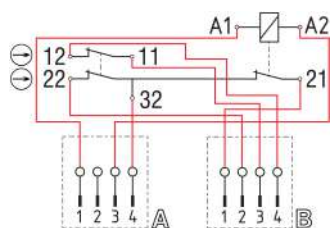
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| 19.5 kB | .cdr |

| 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



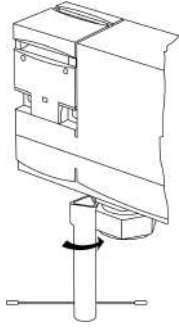
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| 46.9 kB | .cdr |

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

| 5.7 kB | .png | 74.083 x 50.447 mm - 210 x 143 px - 72 dpi

Operating principle

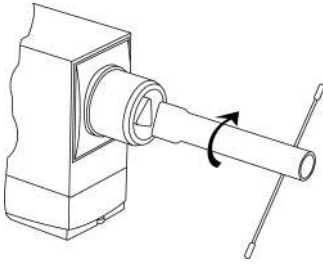


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| 213.5 kB | .jpg | 352.778 x 656.519 mm - 1000 x 1861 px - 72 dpi

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

Operating principle



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| 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

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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.

Generated on: 11/12/2023, 5:24 am