



AZM 170-02ZRK-2405 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 170-02ZRK-2405 24VAC/DC
Article number (order number)	101169134
EAN (European Article Number)	4030661295107
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	cULus CCC
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General data

Standards	EN ISO 13849-1 EN ISO 14119 EN IEC 60947-5-1
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Coding level according to EN ISO 14119	Low
Working principle	electromechanical
Housing material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Gross weight	295 g

General data - Features

Power to unlock	Yes
Emergency exit	Yes
Number of actuating directions	2
Number of auxiliary contacts	1
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	IDC method of termination
Cable section, minimum	0.75 mm ²
Cable section, maximum	1 mm ²
Allowed type of cable	flexible

Mechanical data - Dimensions

Length of sensor	30 mm
Width of sensor	110 mm
Height of sensor	92.5 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}	4 kV
Overtoltage category	III
Degree of pollution	3

Electrical data

Thermal test current	6 A
Rated control voltage	24 VAC/DC
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	2.5 A

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.
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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 (Emergency exit)	For cases of danger Actuation from within the hazardous area

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)



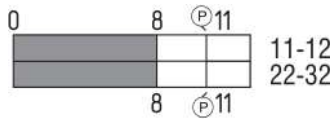
ID: kazm1f86

| 258.6 kB | .jpg | 352.778 x 257.881 mm - 1000 x 731 px - 72 dpi

| 30.4 kB | .png | 74.083 x 53.975 mm - 210 x 153 px - 72 dpi

| 39.9 kB | .jpg | 123.472 x 90.311 mm - 350 x 256 px - 72 dpi

Switch travel diagram



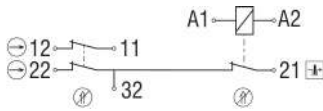
ID: kazm1s01

| 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: kazm1k11

| 55.1 kB | .ai | 297 x 210.002 mm - 841 x 595 px - 72 dpi

| 47.2 kB | .jpg | 352.778 x 112.183 mm - 1000 x 318 px - 72 dpi

| 2.5 kB | .png | 74.083 x 23.636 mm - 210 x 67 px - 72 dpi

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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