



## AZM 170SK-02/01ZKA 24VAC/DC

- 1 Cable entry M 20 x 1.5
- 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-02/01ZKA 24VAC/DC
Article number (order number)	101182774
EAN (European Article Number)	4030661318196
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	305 g

### General data - Features

Power to lock	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 <sub>10D</sub> Normally-closed contact (NC)	2,000,000 Operations
Note	Electrical life on request.
B <sub>10D</sub> Normally-open contact (NO)	1,000,000 Operations
Note	at 10% I <sub>e</sub> 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	5 N
Positive break travel	11 mm
Positive break force per NC contact, minimum	8.5 N
Positive break force, minimum	8.5 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	Screw terminals
Cable section, minimum	0.25 mm <sup>2</sup>
Cable section, maximum	1.5 mm <sup>2</sup>
Note (Cable section)	All indications including the conductor ferrules.
Allowed type of cable	solid single-wire flexible

## Mechanical data - Dimensions

Length of sensor	30 mm
Width of sensor	90 mm

Height of sensor	100.5 mm
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### 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
Overvoltage 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	4 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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## Ordering code

Product type description:  
AZM 170(1)-(2)Z(3)K(4)-(5)-(6)-(7)-(8)

(1)

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<b>without</b>	Cut clamps
<b>SK</b>	Screw connection

(2)

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<b>11</b>	1 NO contacts/1 NC contact
<b>02</b>	2 NC contact

(3)		
<b>without</b>		Latching force 5 N
<b>R</b>		Latching force 30 N
(4)		
<b>without</b>		Power to unlock
<b>A</b>		Power to lock
(5)		
<b>without</b>		Cable entry M20
<b>ST</b>		2 connector, M12, 4-pin
<b>ST-2431</b>		As well as ST; individual solenoid monitoring
<b>ST8</b>		Connector M12 8-pole
(6)		
<b>24VAC/DC</b>		Us 24 VAC/DC
<b>110VAC</b>		Us 110 VAC
<b>230VAC</b>		Us 230 VAC
(7)		
<b>1637</b>		Gold-plated contacts
(8)		
<b>without</b>		Manual release
<b>2197</b>		Manual release from side (Standard in case of conector and power to unlock versions)

## Pictures

**Product picture (catalogue individual photo)**



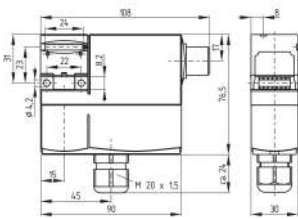
ID: kazm1f59

| 740.5 kB | .jpg | 352.778 x 395.111 mm - 1000 x 1120 px - 72 dpi

| 55.4 kB | .png | 74.083 x 82.903 mm - 210 x 235 px - 72 dpi

| 64.2 kB | .jpg | 110.419 x 123.472 mm - 313 x 350 px - 72 dpi

## Dimensional drawing basic component



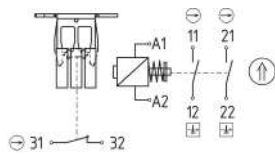
ID: 1azm1g07

| 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



ID: kazm1k86

| 76.0 kB | .ai | 210.002 x 297 mm - 595 x 841 px - 72 dpi

| 89.5 kB | .jpg | 352.778 x 221.544 mm - 1000 x 628 px - 72 dpi

| 4.3 kB | .png | 74.083 x 46.567 mm - 210 x 132 px - 72 dpi

11	12	21	22	31	32	A1	A2
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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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