



## AZM 170SK-11/02ZRIA-B6L 24VAC/DC

- 1 Cable entry M 20 x 1.5
- Cut clamp termination
- Manual release
- Double-insulated
- Individual coding
- Coding level "High" according to ISO 14119
- 90 mm x 84 mm x 30 mm
- Compact design
- Interlock with protection against incorrect locking.
- Long life
- High holding force
- left-hand model
- For very small actuating radii in line with or at 90° to the plane of the actuator

## Data

### Ordering data

Product type description	AZM 170SK-11/02ZRIA-B6L 24VAC/DC
Article number (order number)	103009059
EAN (European Article Number)	4030661457710

### Approvals - Standards

Certificates	BG cULus CCC
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### General data

Standards	BG-GS-ET-19 EN ISO 13849-1 EN ISO 14119 EN IEC 60947-5-1
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Coding	Individual coding
Coding level according to EN ISO 14119	High
Working principle	electromechanical
Housing material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Material of the actuator	Stainless steel
Gross weight	374 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	d
Category	3
Mission time	20 Year(s)

### Safety classification - Safety outputs

B <sub>10D</sub> Normally-closed contact (NC)	2,000,000 Operations
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### Safety classification - Fault exclusion

Mission time	20 Year(s)
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### Mechanical data

Actuating radius, minimum	50 mm
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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

### Mechanical data - Connection technique

Cable entry	M 16 x 1.5
Termination	Screw terminals
Cable section, minimum	0.25 mm <sup>2</sup>
Cable section, maximum	1.5 mm <sup>2</sup>
Allowed type of cable	solid single-wire solid multi-wire flexible

### Mechanical data - Dimensions

Length of sensor	30 mm
Width of sensor	90 mm
Height of sensor	84 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

### 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	10 W
Switching element	Opener (NC)
Note (Switching element)	Change-over contact with double break, type Zb or 2 NC or 3 NC or 4 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

### Electrical data - Auxiliary contacts

Voltage, Utilisation category AC-15 230 VAC

Voltage, Utilisation category DC-13 24 VDC

### Other data

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

### Scope of delivery

Scope of delivery Not available as spare part  
Slot sealing plugs  
The actuator is included in the scope of delivery

### Note

Note (General) The actuator is not available separately.

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

### Ordering code

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

(1)

<b>without</b>	Cut clamps
<b>SK</b>	Screw connection
(2)	
<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
<b>I</b>	Individual coding
(4)	
<b>without</b>	Power to unlock
<b>A</b>	Power to lock
(5)	
<b>without</b>	cable gland
<b>ST</b>	M12 x 1 connector
(6)	
<b>B1</b>	with actuator B1
<b>B5</b>	with actuator B5
<b>B6L</b>	with actuator B6L
<b>B6R</b>	with actuator B6R
(7)	
<b>without</b>	Manual release
<b>2197</b>	Manual release from side (Standard in case of connector and power to unlock versions)
<b>1637</b>	Gold-plated contacts
(8)	
<b>24VAC/DC</b>	Us 24 VAC/DC
<b>110VAC</b>	Us 110 VAC

**230VAC**

Us 230 VAC

(1)

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<b>11/11</b>	1 NO contact, 1 NC contact / 1 NO contact 1, NC contact
<b>11/02</b>	1 NO contact, 1 NC contact / 2 NC contacts
<b>12/00</b>	1 NO contact, 2 NC contacts / -
<b>12/11</b>	1 NO contact, 2 NC contact / 1 NO contact 1, NC contact
<b>12/02</b>	1 NO contact, 2 NC contact / 2 NC contacts
<b>02/01</b>	2 NC contacts / 1 NC contact
<b>02/10</b>	2 NC contacts, - / 1 NO contact

(2)

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<b>without</b>	Latching force 5 N
<b>R</b>	Latching force 30 N

(3)

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<b>without</b>	Power to unlock
<b>A</b>	Power to lock

(4)

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<b>B1</b>	with actuator B1
<b>B5</b>	with actuator B5
<b>B6L</b>	with actuator B6L
<b>B6R</b>	with actuator B6R

(5)

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<b>1637</b>	Gold-plated contacts
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(6)

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<b>2197</b>	Manual release for Power to unlock
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**Pictures**

## Product picture (catalogue individual photo)



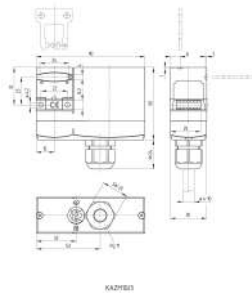
ID: kazm1fi3

| 595.8 kB | .jpg | 262.114 x 331.258 mm - 743 x 939 px - 72 dpi

| 49.6 kB | .png | 74.083 x 93.486 mm - 210 x 265 px - 72 dpi

| 54.5 kB | .jpg | 97.719 x 123.472 mm - 277 x 350 px - 72 dpi

## Dimensional drawing basic component



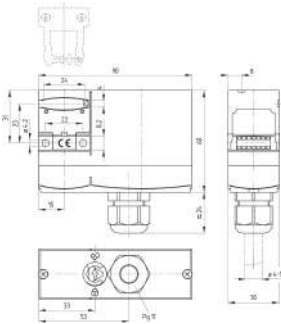
ID: cazm1gi3

| 179.5 kB | .cdr |

| 4.7 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi

| 125.7 kB | .jpg | 352.778 x 352.778 mm - 1000 x 1000 px - 72 dpi

## Dimensional drawing basic component



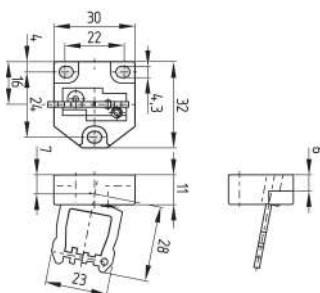
ID: kazm1gi3

| 106.0 kB | .cdr |

| 6.2 kB | .png | 74.083 x 83.961 mm - 210 x 238 px - 72 dpi

| 195.9 kB | .jpg | 352.778 x 400.403 mm - 1000 x 1135 px - 72 dpi

## Dimensional drawing actuator



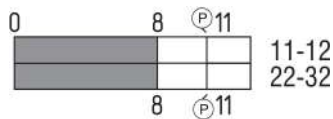
ID: 1azm1b35

| 139.7 kB | .jpg | 352.778 x 317.853 mm - 1000 x 901 px - 72 dpi

| 17.8 kB | .png | 74.083 x 66.675 mm - 210 x 189 px - 72 dpi

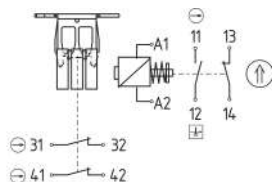


## Switch travel diagram



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

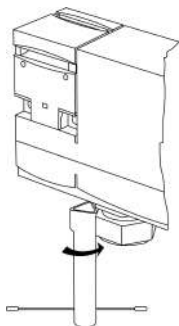
## Diagram



ID: kazm1k76  
| 80.1 kB | .ai | 210.002 x 297 mm - 595 x 841 px - 72 dpi  
| 100.8 kB | .jpg | 352.778 x 266.7 mm - 1000 x 756 px - 72 dpi  
| 4.6 kB | .png | 74.083 x 56.092 mm - 210 x 159 px - 72 dpi

11	12	13	14	31	32	41	42	A1	A2
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## Operating principle



ID: kazm1a70  
| 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

## Assembly example



ID: kazm1m06  
| 98.4 kB | .cdr |

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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.

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