



## AZM 170-11ZRK 24VAC/DC

- 1 Cable entry M 20 x 1.5
- IDC method of termination
- Manual release
- Thermoplastic enclosure
- Double-insulated
- Compact design
- 90 mm x 84 mm x 30 mm
- Interlock with protection against incorrect locking.
- Long life
- High holding force

## Data

### Ordering data

Product type description	AZM 170-11ZRK 24VAC/DC
Article number (order number)	101140788
EAN (European Article Number)	4030661119762
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 EAC
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## General data

Standards	BG-GS-ET-19 EN IEC 60947-5-1
Coding level according to EN ISO 14119	Low
Working principle	electromechanical
Enclosure material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Material of the contacts, electrical	Silver
Gross weight	270 g

## General data - Features

Power to unlock	Yes
Manual release	Yes
Number of actuating directions	2
Number of auxiliary contacts	1
Number of safety contacts	1

## Safety classification

Standards	EN ISO 13849-1
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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## Mechanical data

Mechanical life, minimum	1,000,000 Operations
Holding force $F_{Zh}$ in accordance with EN ISO 14119	1,000 N
Latching force	30 N
Positive break travel	11 mm
Positive break force, minimum	8.5 N
Actuating speed, maximum	2 m/s

## Mechanical data - Connection technique

Termination	IDC method of termination
Cable section, minimum	1 x 0.75 mm <sup>2</sup>
Cable section, maximum	1 x 1.0 mm <sup>2</sup> , 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, minimum	-25 °C
Ambient temperature, maximum	+60 °C

## Ambient conditions - Insulation values

Rated insulation voltage $U_i$	250 V
Rated impulse withstand voltage $U_{imp}$	4 kV

## 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	NO contact, 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
Switching frequency	1,000 /h

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

## Ordering code

Product type description:

AZM 170(1)-(2)Z(3)K(4)-(5)-(6)-(7)-(8)

(1)

<b>without</b>	IDC method of termination
<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

(4)

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

(5)

<b>without</b>	Cable entry M20
<b>ST</b>	2 Stecker M12, 4-pole
<b>ST-2431</b>	As well as ST; individual solenoid monitoring
<b>ST8</b>	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 connector and power to unlock versions)

## Pictures

### Product picture (catalogue individual photo)

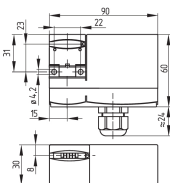


ID: kazm1f04

| 620.3 kB | .jpg | 352.425 x 356.658 mm - 999 x 1011 px - 72 dpi

| 48.7 kB | .png | 74.083 x 74.789 mm - 210 x 212 px - 72 dpi

### Dimensional drawing basic component



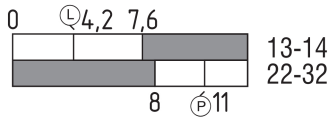
ID: laz1g03

| 96.8 kB | .cdr |

| 3.7 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi

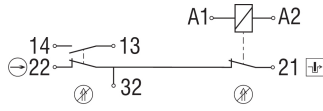
| 75.8 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 px - 72 dpi

### Switch travel diagram



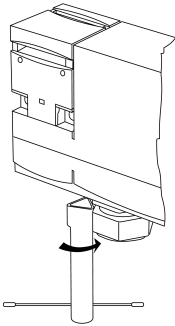
ID: kazm1s02  
 | 19.7 kB | .cdr |  
 | 2.0 kB | .png | 74.083 x 25.753 mm - 210 x 73 px - 72 dpi  
 | 50.1 kB | .jpg | 352.778 x 123.119 mm - 1000 x 349 px - 72 dpi

## Diagram



ID: kazm1k12  
 | 52.5 kB | .ai | 297 x 210.002 mm - 841 x 595 px - 72 dpi  
 | 45.9 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

## 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.

Generated on: 11/28/2022, 3:03 AM