



AZM 170-11ZK 24 VAC/DC

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

Data

Ordering data

	AZM 170-11ZK 24 VAC/DC
	101141639
EAN (European Article Number)	4030661122915
eCl@ss number, Version 9.0	27-27-26-03

Approval - Standards

cULus
CCC
EAC

General data

	AZM 170
	EN 60947-5-1
	BG-GS-ET-19
Coding level according to ISO 14119	Low
Active principle	electromechanical
Enclosure material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Material of the contacts, electrical	Silver
Gross weight	280 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 appraisal

	ISO 13849-1
Mission Time	20 Year(s)

Safety appraisal - Safety outputs

B10d Normally-closed contact (NC)	2,000,000 Operations
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Mechanical data

Mechanical life, minimum	1,000,000 Operations
Clamping force in accordance with ISO14119 F_{zh}	1,000 N
Latching force	5 N
positive break travel	11 mm
Positive break force, minimum	8.5 N
Actuating speed, maximum	2 m/s

Mechanical data - Connection technique

Terminal Connector	IDC method of termination
	1 x 0.75 mm ²
Cable section, maximum	1 x 1.0 mm ² , flexible

Mechanical data - Dimensions

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

Ambient conditions

Protection class	IP 67 to IEC/EN 60529
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+60 °C

Ambient conditions - Insulation value

Rated impulse withstand voltage	4 kV
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Electrical data

Thermal test current	6 A
Rated control voltage	24 VAC/DC
Required rated short-circuit current to EN 60947-5-1	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	Creep circuit element
Switching frequency	1,000 /h

Electrical data - Safety contacts

Voltage, Utilisation category AC15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	2.5 A

Electrical data - Auxiliary contacts

Voltage, Utilisation category AC15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	2.5 A

Other data

Note (applications)	sliding safety guard removable guard hinged safety guard
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Scope of delivery

Included in delivery	Actuators must be ordered separately.
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Notes

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)

(1)

without IDC method of termination

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

I Individual coding

(4)

without Power to unlock

A Power to lock

(5)

without cable gland

ST M12 x 1 connector

ST-2431 Connector M12 x 1, individual solenoid monitoring

(6)

24VAC/DC Us 24 VAC/DC

110VAC Us 110 VAC

230VAC Us 230 VAC

(7)

without Manual release

2197 Manual release from side (Power to unlock)

1637 Gold-plated contacts

(1)

11/11 1 NO contact, 1 NC contact / 1 NO contact 1, NC contact

11/02 1 NO contact, 1 NC contact / 2 NC contacts

12/00 1 NO contact, 2 NC contacts / -

12/11 1 NO contact, 2 NC contact / 1 NO contact 1, NC contact

12/02 1 NO contact, 2 NC contact / 2 NC contacts

02/01 2 NC contacts / 1 NC contact

02/10 2 NC contacts, - / 1 NO contact

(2)

R Latching force 30 N

without Power to unlock

(4)

1637 Gold-plated contacts

(5)

2197 Manual release for Power to unlock

Pictures

A black, rectangular photoelectric sensor with a threaded mounting bracket at the bottom. The front face has a small, dark, rectangular sensor window. The side of the device is labeled with the Schmersal logo, website, company name, address, and a CE mark.

SCHMERSAL
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 K.A. Schmersal GmbH
 Mödinghofe 30
 42279 Wuppertal

ID: kazm1f04

| 48,7 kB | .png | 74.083 x 74.789 mm - 210 x 212

Pixel - 72 dpi

| 620,3 kB | .jpg | 352.425 x 356.658 mm - 999 x 1011

Pixel - 72 dpi

ID: 1azm1g03

| 3,7 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel
- 72 dpi

| 75,8 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697

Pixel - 72 dpi

| 96,8 kB | .cdr |

0 4, 2 7,6 8 11

13-14
22-32

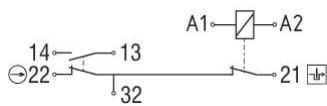
ID: kazm1s02

| 2,0 kB | .png | 74.083 x 25.753 mm - 210 x 73 Pixel - 72 dpi

| 19,7 kB | .cdr |

| 50,1 kB | .jpg | 352.778 x 123.119 mm - 1000 x 349
Pixel - 72 dpi

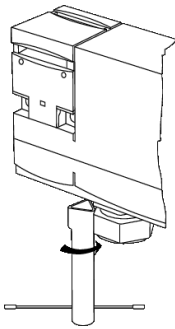
Graphic/Product/Contact



ID: kazm1k12

| 40,9 kB | .jpg | 352.778 x 113.947 mm - 1000 x 323
Pixel - 72 dpi

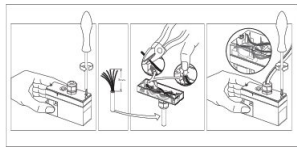
Illustration/Product/Function



ID: kazm1a70

| 213,5 kB | .jpg | 352.778 x 656.519 mm - 1000 x
1861 Pixel - 72 dpi
| 6,5 kB | .png | 74.083 x 137.583 mm - 210 x 390
Pixel - 72 dpi

Graphic/Product/Mounting



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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