



AZM 170-02ZRIA-B5 24VAC/DC

- 1 Cable entry M 20 x 1.5
- IDC method of 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
- Particularly suitable for front mounting

Data

Ordering data

Product type description	AZM 170-02ZRIA-B5 24VAC/DC
Article number (order number)	101140804
EAN (European Article Number)	4030661119922
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	IFA 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
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	310 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	c
Category	1
B _{10D} Normally-closed contact (NC)	2,000,000 Operations
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

Actuating radius, minimum	140 mm
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

Cable entry	1 x M20 x 1,5
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	90 mm
Height of sensor	84 mm

Ambient conditions

Degree of protection	IP67
Ambient temperature	-25 ... +60 °C
Storage and transport temperature	-25 ... +85 °C
Note (Relative humidity)	non-condensing non-icing
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	2 NC contact
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

Maximum switching frequency	1,000 /h
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Material of the contacts, electrical	Silver
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Electrical data - Magnet control

Magnet switch-on time	100 %
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Test pulse duration, maximum	5 ms
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Test pulse interval, minimum	50 ms
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Electrical data - Safety contacts

Voltage, Utilisation category AC-15	230 VAC
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Current, Utilisation category AC-15	4 A
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Voltage, Utilisation category DC-13	24 VDC
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Current, Utilisation category DC-13	4 A
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Other data

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

Scope of delivery	Not available as spare part Slot sealing plugs The actuator is included in the scope of delivery
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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
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Note (Manual release)	bottom For manual release using M5 triangular key, available as accessory
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Ordering code

Product type description:

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

(1)		
without		Cut clamps
SK		Screw connection
(2)		
11		1 NO contact/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
(6)		
B1		with actuator B1
B5		with actuator B5
B6L		with actuator B6L
B6R		with actuator B6R
(7)		
without		Manual release
2197		Manual release from side (Standard in case of conector and power to unlock versions)
1637		Gold-plated contacts

(8)

24VAC/DC

Us 24 VAC/DC

110VAC

Us 110 VAC

230VAC

Us 230 VAC

(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)

without

Latching force 5 N

R

Latching force 30 N

(3)

without

Power to unlock

A

Power to lock

(4)

B1

with actuator B1

B5

with actuator B5

B6L

with actuator B6L

B6R

with actuator B6R

(5)

1637

Gold-plated contacts

(6)

2197

Manual release for Power to unlock

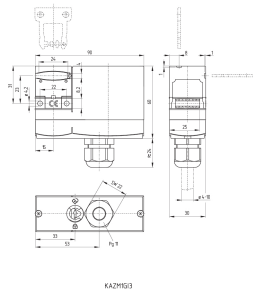
Pictures

Product picture (catalogue individual photo)



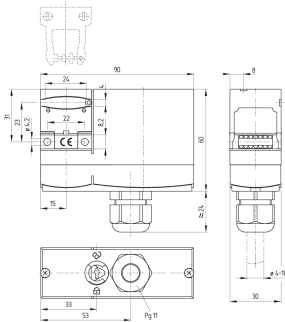
ID: kazm1fi3
| 595.8 kB | .jpg | 262.114 x 331.258 mm - 743 x 939 px - 72 dpi
| 49.6 kB | .png | 74.083 x 93.486 mm - 210 x 265 px - 72 dpi
| 54.5 kB | .jpg | 97.719 x 123.472 mm - 277 x 350 px - 72 dpi

Dimensional drawing basic component



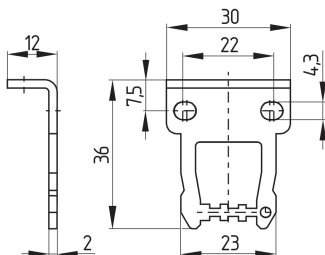
ID: cazm1gi3
| 179.5 kB | .cdr |
| 4.7 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi
| 125.7 kB | .jpg | 352.778 x 352.778 mm - 1000 x 1000 px - 72 dpi

Dimensional drawing basic component



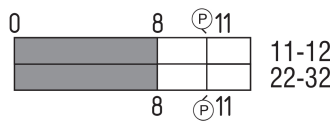
ID: kazm1gi3
| 106.0 kB | .cdr |
| 6.2 kB | .png | 74.083 x 83.961 mm - 210 x 238 px - 72 dpi
| 195.9 kB | .jpg | 352.778 x 400.403 mm - 1000 x 1135 px - 72 dpi

Dimensional drawing actuator



ID: 1az17b06
| 99.1 kB | .jpg | 352.778 x 277.989 mm - 1000 x 788 px - 72 dpi
| 4.8 kB | .png | 74.083 x 58.561 mm - 210 x 166 px - 72 dpi

Switch travel diagram



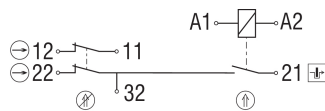
ID: kazm1s01

| 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



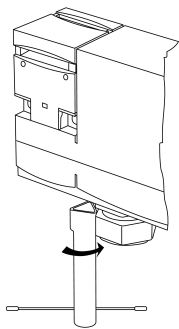
ID: kazm1k19

| 55.0 kB | .ai | 297 x 210.002 mm - 841 x 595 px - 72 dpi

| 46.7 kB | .jpg | 352.778 x 112.183 mm - 1000 x 318 px - 72 dpi

| 2.6 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.

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