



AZM 170-02ZRI-ST-B5 24 VAC/DC

- Long life
- Compact design
- Double-insulated
- Individual coding
- High holding force
- 90 mm x 84 mm x 30 mm
- Connector M12, 4-pole
- Manual release from side
- A- and B-coding of the connectors
- Coding level "High" according to ISO 14119
- Interlock with protection against incorrect locking.
- Particularly suitable for hinged guards (front mounting)

Data

Ordering data

	AZM 170-02ZRI-ST-B5 24 VAC/DC
	101144339
EAN (European Article Number)	4030661132822
eCl@ss number, Version 9.0	27-27-26-03

Approval - Standards

cULus
CCC
EAC

General data

	AZM 170i
	EN 60947-5-1
	BG-GS-ET-19
general information	Individual coding
Coding level according to ISO 14119	High
Active principle	electromechanical
Enclosure material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Material of the actuator	Stainless steel
Material of the contacts, electrical	Silver
Gross weight	296 g

General data - Features

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

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

Actuating radius, minimum	140 mm
Mechanical life, minimum	1,000,000 Operations
Clamping force in accordance with ISO14119 F_{zh}	1,000 N
Latching force	30 N
positive break travel	11 mm
Positive break force, minimum	17 N
Actuating speed, maximum	2 m/s

Mechanical data - Connection technique

Terminal Connector	Connector plug M12, 4-pole, (A-coding) Connector plug M12, 4-pole, (B-coding)
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Mechanical data - Dimensions

Height of sensor	75.5 mm
Length of sensor	30 mm
Width of sensor	108 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	2.5 kV
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Electrical data

Thermal test current	4 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	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	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	4 A

Other data

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

Included in delivery	Slot sealing plugs
Delivery scope of Mounting material	Tamperproof screws

Notes

Note (General)	minimum actuating radius on rotating guard systems via the narrow edge of the actuator 140 mm minimum actuating radius on hinged guards in line with the plane of the actuator 200 mm The axis of the hinge must be 13 mm above and in a parallel plane to the top surface of the safety switch. The actuator is not available separately.
Note (Manual release)	right For manual release using M5 triangular key, available as accessory Manual release from side

Ordering code

Product type description:

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

(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

(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 (Power to unlock)

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

Photo/Product/Catalogue



ID: kazm1fi4

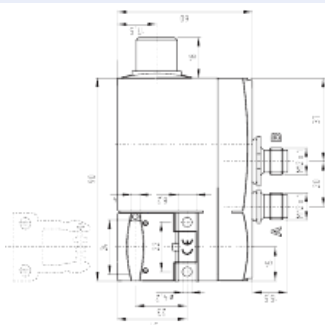
| 611,5 kB | .jpg | 291.042 x 301.625 mm - 825 x 855

Pixel - 72 dpi

| 39,7 kB | .png | 73.731 x 76.553 mm - 209 x 217

Pixel - 72 dpi

Dimension/Product/Basic



ID: kazm1gi4

| 5,1 kB | .png | 74.083 x 74.083 mm - 210 x 210 Pixel

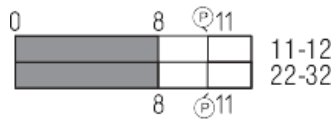
- 72 dpi

| 91,6 kB | .cdr |

| 153,6 kB | .jpg | 352.778 x 353.483 mm - 1000 x

1002 Pixel - 72 dpi

Diagramm/Product/Travel



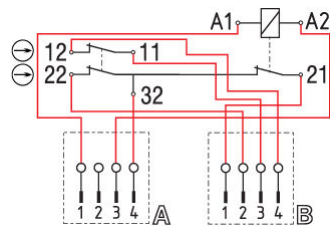
ID: kazm1s01

| 1,8 kB | .png | 74.083 x 26.458 mm - 210 x 75 Pixel - 72 dpi

| 19,5 kB | .cdr |

| 49,4 kB | .jpg | 352.778 x 125.236 mm - 1000 x 355
Pixel - 72 dpi

Graphic/Product/Contact

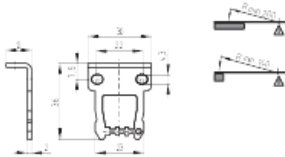


ID: kazm1k14

| 135,9 kB | .jpg | 352.778 x 240.947 mm - 1000 x 683
Pixel - 72 dpi

| 46,9 kB | .cdr |

Dimension/Product/Actuator



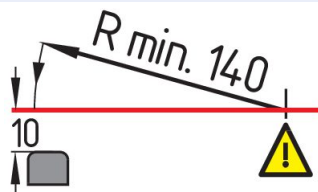
ID: 1az17b06

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

| 74,6 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697
Pixel - 72 dpi

| 36,2 kB | .cdr |

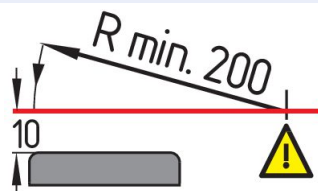
Graphic/Product/Radius



ID: kaz17r06

| 19,8 kB | .cdr |

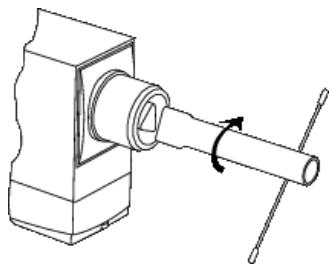
Graphic/Product/Radius



ID: kaz17r05

| 19,8 kB | .cdr |

Illustration/Product/Function



ID: kazm1a71

| 4,6 kB | .png | 74.083 x 58.914 mm - 210 x 167 Pixel
- 72 dpi

| 113,1 kB | .jpg | 352.778 x 280.811 mm - 1000 x 796
Pixel - 72 dpi

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal

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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