SCHMERSAL
THE DNA OF SAFETY

AZM 170-02ZRI-ST-B6L 24 VAC/DC



- **Long life**
- **Compact design**
- **left-hand model**
- **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.**
- **For very smal actuating radii in line with or at 90° to the plane of the actuator**

Data

Ordering data	
	AZM 170-02ZRI-ST-B6L 24 VAC/DC
	101144373
EAN (European Article Number)	4030661133140
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	297 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
Mechanical data	
Actuating radius, minimum	50 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)
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

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
Scope of delivery	
Included in delivery	Slot sealing plugs
Delivery scope of Mounting material	Tamperproof screws
Notes	
Note (General)	The axis of the hinge must be 11 mm above and in a parallel plane to the top surface of the safety switch. Actuating radius adjustable to minimum 50 mm, using a hexagonal key wrench AF 2 mm (a) 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

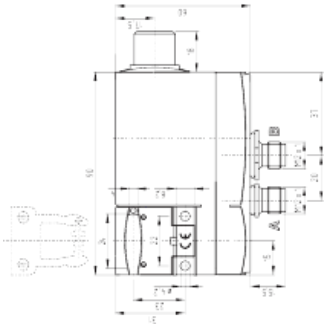
Photo/Product/Catalogue



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

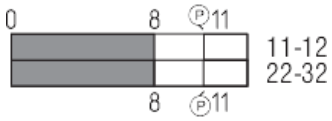
Dimension/Product/Basic



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

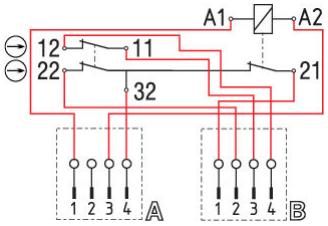
Diagramm/Product/Travel



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

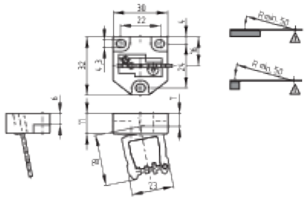
Graphic/Product/Contact



ID: kazm1k14

| 135,9 kB | .jpg | 352.778 x 240.947 mm - 1000 x 683 Pixel - 72 dpi
| 46,9 kB | .cdr |

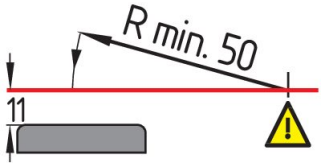
Dimension/Product/Actuator



ID: 1azm1b07

| 109,6 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695 Pixel - 72 dpi
| 10,3 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel - 72 dpi

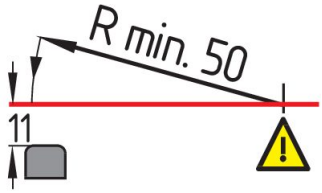
Graphic/Product/Radius



ID: kaz17r01

| 19,8 kB | .cdr |

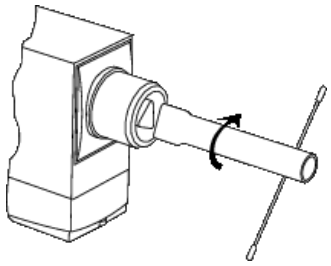
Graphic/Product/Radius



ID: kaz17r02

| 19,8 kB | .cdr |

Illistration/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

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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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