


## Datasheet - AZM 170-02ZRIA-B6L 24 VAC/DC

Solenoid interlock / AZM 170I / AZM 170i-B6L



- 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
- 1 Cable entry M 20 x 1.5
- left-hand model
- For very small actuating radii in line with or at 90° to the plane of the actuator
- IDC method of termination
- Manual release

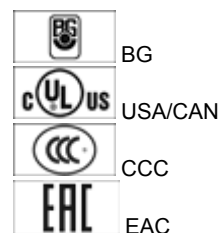
(Minor differences between the printed image and the original product may exist!)

### Ordering details

Product type description	AZM 170-02ZRIA-B6L 24 VAC/DC
Article number	101140812
EAN Code	4030661120003
eCl@ss	27-27-26-03

### Approval

Approval



### Classification

Standards	EN ISO 13849-1
B10d Normally-closed contact (NC)	2.000.000
Mission time	20 Years
notice	

$$MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$$

$$n_{op} = \frac{d_{ap} \times h_{op} \times 3600 \text{ s/h}}{t_{cycle}}$$

### Global Properties

Permanent light	AZM 170I
Standards	EN 60947-5-1, BG-GS-ET-19
Compliance with the Directives (Y/N) 	Yes
Number of actuating directions	2
Active principle	electromechanical
- Individual coding	
- Coding level "High" according to ISO 14119	
Duty cycle ED	Magnet 100 %
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
- Material of the actuator	Stainless steel
- Material of the contacts	Silver
Housing coating	None
Weight	295

### Mechanical data

Design of electrical connection	IDC method of termination
Cable section	
- Min. Cable section	1 x 0,75
- Max. Cable section	1 x 1.0, flexible
Mechanical life	> 1.000.000 operations
Emergency unlocking device (Y/N)	No
Manual release (Y/N)	Yes
- bottom	
Emergency release (Y/N)	No
Latching force	30
Positive break force	17
positive break travel	11 mm
Clamping force F	1000 N
Max. Actuating speed	2 m/s
Minimum actuating radius	50 mm

### Ambient conditions

Ambient temperature	
- Min. environmental temperature	-25 °C
- Max. environmental temperature	+60 °C
Protection class	IP67 to IEC/EN 60529

### Electrical data

Design of control element	Opener (NC)
Switching principle	Creep circuit element
Number of auxiliary contacts	0
Number of safety contacts	2
Power to unlock	No
Power to lock	Yes

Rated control voltage $U_s$	24 VAC/DC
Power consumption	max. 10 W
Power consumption	max. 10 W
Rated impulse withstand voltage $U_{imp}$	4 kV
Rated insulation voltage $U_i$	250 V
Thermal test current $I_{the}$	10 A
Utilisation category	AC-15: 230 V / 4 A
Max. fuse rating	6 A gG D-fuse

**ATEX**

Explosion protection categories for gases	None
Explosion protected category for dusts	None

**Miscellaneous data**

Applications	<div>  sliding safety guard, </div> <div>  removable guard, </div> <div>  hinged safety guard </div>
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**Dimensions**

Dimensions of the sensor	
- Width of sensor	90
- Height of sensor	84
- Length of sensor	30 mm

**notice**

Actuating radius adjustable, minimum 50 mm, using an hexagonal key wrench 2 mm A/F ( ) a

**The actuator is not available separately.**

The axis of the hinge should be 11 mm above the top edge of the safety switch and in the same plane

Manual release

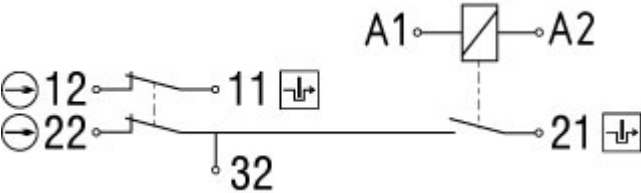
- For manual release using M5 triangular key, available as accessory

This type termination (IDC) method enables simple connetion of flexible conductors without the need for the use of conductor ferrules






**Included in delivery**

- Included in delivery
- Individually coded actuator
  - tamperproof screws
  - Slot sealing plugs

**Diagram**








Note Diagram

-  positive break NC contact
-  active
-  no active
-  Normally-open contact
-  Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

-  Contact closed
-  Contact open
-  Setting range
-  Break point
-  Positive opening sequence/- angle
- VS** adjustable range of NO contact
- VÖ** adjustable range of NC contact
- N** after travel

Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch.  
Order example: AZM 170-02ZRIA-B6L 24 VAC/DC-**1637**

....-**1637** 0,3 µm gold-plated contacts

Ordering code

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

(1)	
without	IDC method of termination
SK	Screw connection
(2)	
11	1 Normally open contact (NO) / 1 Opener (NC)
02	2 Opener (NC)
(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	Connector M12 x 1

<b>(6)</b>	
<b>B1</b>	with Actuator B1
<b>B5</b>	with Actuator B5
<b>B6L</b>	with Actuator B6L
<b>B6R</b>	with Actuator B6R
<b>(7)</b>	
<i>without</i>	Manual release
<b>2197</b>	Manual release from side (Power to unlock)
<b>1637</b>	gold-plated contacts
<b>(8)</b>	
<b>24VAC/DC</b>	U <sub>s</sub> 24 VAC/DC
<b>110VAC</b>	U <sub>s</sub> 110 VAC
<b>230VAC</b>	U <sub>s</sub> 230 VAC
	<b>AZM 170ST and AZM 170SK</b>
	<b>AZM 170ST-(1)Z(2)I(3)-(4)-(5)-(6) 24 VAC/DC</b>
	<b>AZM 170SK-(1)Z(2)I(3)-(4)-(5)-(6) 24 VAC/DC</b>
<b>(1)</b>	
<b>11/11</b>	1 Normally open contact (NO), 1 Opener (NC) / 1 Normally open contact (NO), 1 Opener (NC)
<b>11/02</b>	1 Normally open contact (NO), 1 Opener (NC) / 2 Opener (NC)
<b>12/00</b>	1 Normally open contact (NO), 2 Opener (NC) / -
<b>12/11</b>	1 Normally open contact (NO), 2 Opener (NC) / 1 Normally open contact (NO), 1 Opener (NC)
<b>12/02</b>	1 Normally open contact (NO), 2 Opener (NC) / 2 Opener (NC)
<b>02/01</b>	2 Opener (NC), - / 1 Opener (NC), -
<b>02/10</b>	2 Opener (NC), - / 1 Normally open contact (NO), -
<b>(2)</b>	
<i>without</i>	Latching force 5 N
<b>R</b>	Latching force 30 N
<b>(3)</b>	
<i>without</i>	Power to unlock
<b>A</b>	Power to lock
<b>(4)</b>	
<b>B1</b>	with Actuator B1
<b>B5</b>	with Actuator B5
<b>B6L</b>	with Actuator B6L
<b>B6R</b>	with Actuator B6R
<b>(5)</b>	
<b>1637</b>	gold-plated contacts
<b>(6)</b>	
<b>2197</b>	Manual release for Power to unlock

## Documents

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**Operating instructions and Declaration of conformity** (fr) 886 kB, 18.11.2016

Code: mrl\_azm170i\_fr

**Operating instructions and Declaration of conformity** (it) 863 kB, 21.11.2016

Code: mrl\_azm170i\_it

**Operating instructions and Declaration of conformity** (es) 881 kB, 21.10.2016

Code: mrl\_azm170i\_es

Code: mrl\_azm170i\_nl

Code: mrl\_azm170i\_da

Code: mrl\_azm170i\_de

Code: mrl\_azm170i\_pt

Code: mrl\_azm170i\_pl

Code: mrl\_azm170i\_jp

Code: mrl\_azm170i\_en

Code: z\_m17p02

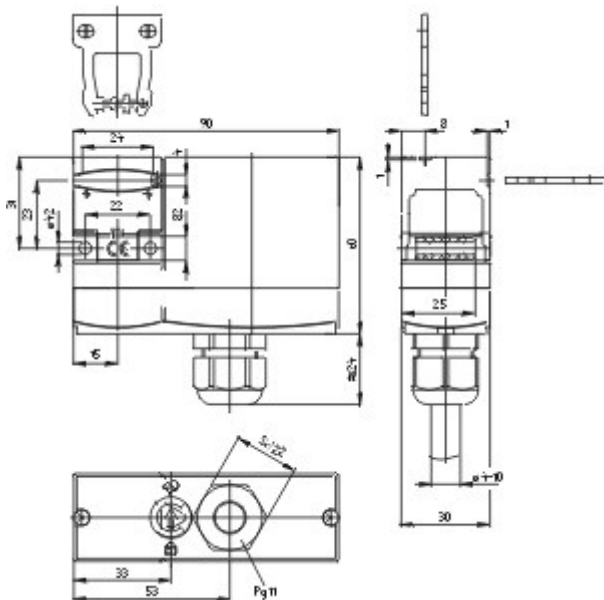
Code: z\_m17p01

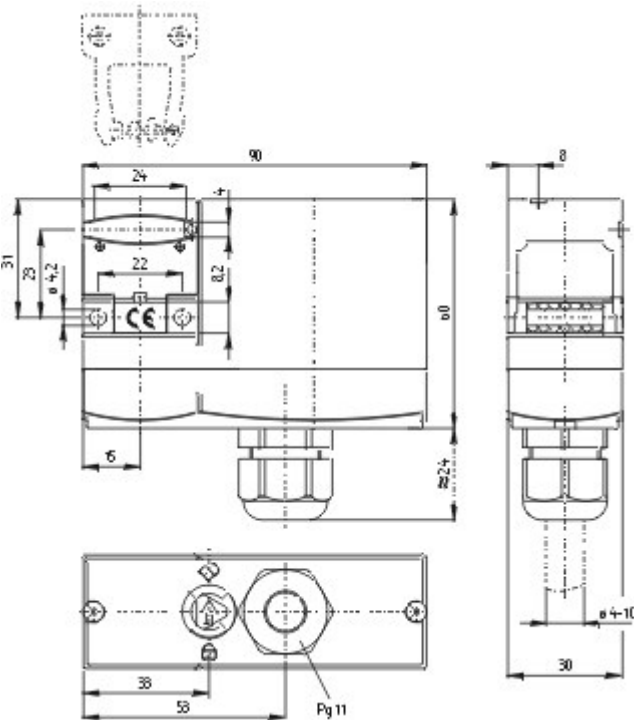
Code: q\_371p02

Code: q\_371p03

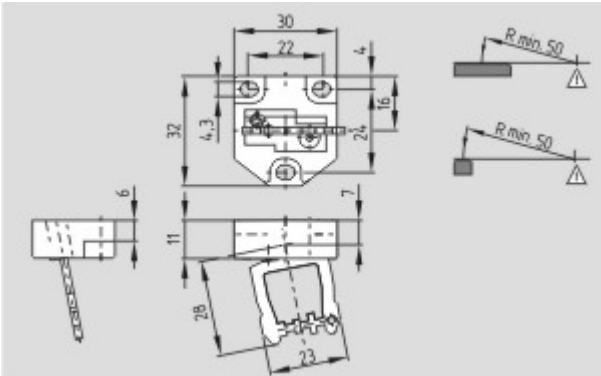
Code: q\_6040p17\_ru

## Images

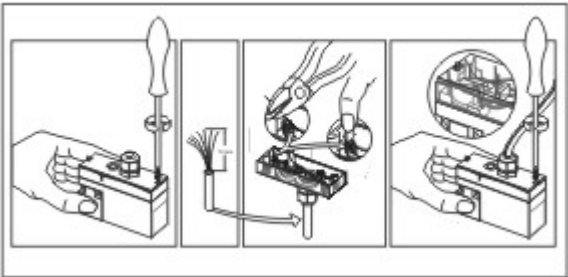




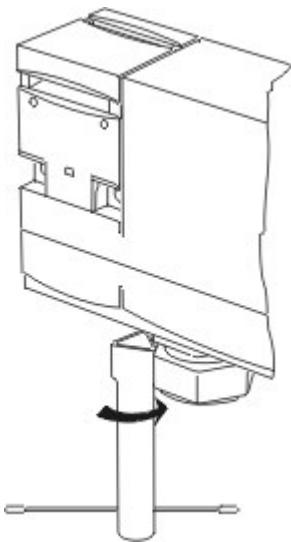
Dimensional drawing (basic component)



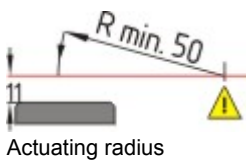
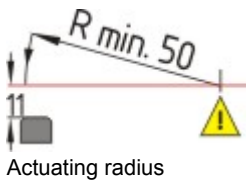
Dimensional drawing (miscellaneous)



Assembly example



Detail photo



## System components

### Accessories



#### 101208493 - AZM 170-B CENTERING GUIDE

- for AZ 17 and AZM 170



#### 101100887 - TRIANGULAR KEY TK-M5

- For manual release using M5 triangular key, available as accessory
- For maintenance, installation, etc.