Datasheet - AZM 170-02ZRI-ST-B6R 24 VAC/DC

Solenoid interlock / AZM 170I / AZM 170i-B6R





- ullet Double-insulated lacktriangle
- · 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
- · right-hand model
- \bullet For very smal actuating radii in line with or at 90° to the plane of the actuator
- Connector M12, 4-pole
- A- and B-coding of the connectors
- · Manual release from side

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

Ordering details

Product type description

Article number

EAN Code

eCl@ss

AZM 170-02ZRI-ST-B6R 24 VAC/DC

101146842

4030661140322

27-27-26-03

Approval

Approval



Classification

Standards

B10d Normally-closed contact (NC)

Mission time

notice

EN ISO 13849-1

2.000.000

20 Years

$$MTTF_d = \frac{B_{10d}}{0.1 \times n_{op}}$$

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

Global Properties

Permanent light AZM 170I

Standards EN 60947-5-1, BG-GS-ET-19

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

Mechanical data

Design of electrical connection Connector M12

Mechanical life > 1.000.000 operations

Emergency unlocking device (Y/N) No Manual release (Y/N) Yes

- right

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
 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 contacts0Number of safety contacts2Power to unlockYesPower to lockNo

Rated control voltage Us

24 VAC/DC

Power consumption

max. 10 W

Power consumption

max. 10 W

Rated impulse withstand voltage Uimp

4 kV

Rated insulation voltage Ui Thermal test current Ithe Utilisation category

Max. fuse rating

10 A AC-15: 230 V / 4 A

250 V

6 A gG D-fuse

ATEX

Explosion protection categories for gases

Explosion protected category for dusts

None

Miscellaneous data

Applications

sliding safety guard,



removable guard,



hinged safety guard

Dimensions

Dimensions of the sensor

- Width of sensor
- Height of sensor
- 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 from side

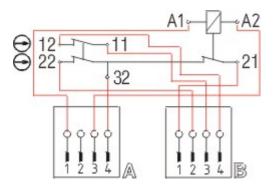
• For manual release using M5 triangular key, available as accessory

Included in delivery

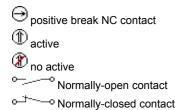
Included in delivery

- Individually coded actuator
- tamperproof screws
- Slot sealing plugs

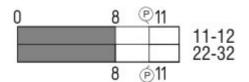
Diagram



Note Diagram



Switch travel diagram



Notes Switch travel diagram

Contact closed

Contact open

Setting range

(L) 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 170-02ZRI-ST-B6R 24 VAC/DC-1637

...-1637

 $0.3~\mu m$ 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 Normally open contact (NO) / 1 Opener (NC)

02 2 Opener (NC)

(3)

without Latching force 5 N

R Latching force 30 N

Latching force 30 N Individual coding

(4)

ī

withoutPower to unlockAPower to lock

without cable gland

ST Connector M12 x 1

(6)

B1with Actuator B1B5with Actuator B5B6Lwith Actuator B6LB6Rwith 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

AZM 170ST and AZM 170SK

AZM 170ST-(1)Z(2)I(3)-(4)-(5)-(6) 24 VAC/DC AZM 170SK-(1)Z(2)I(3)-(4)-(5)-(6) 24 VAC/DC

(1)

12/00

11/11 1 Normally open contact (NO), 1 Opener (NC) / 1 Normally open contact

(NO), 1 Opener (NC)

11/02 1 Normally open contact (NO), 1 Opener (NC) / 2 Opener (NC)

1 Normally open contact (NO), 2 Opener (NC) / -

12/11 1 Normally open contact (NO), 2 Opener (NC) / 1 Normally open contact

(NO), 1 Opener (NC)

12/02 1 Normally open contact (NO), 2 Opener (NC) / 2 Opener (NC)

02/01 2 Opener (NC), - / 1 Opener (NC), -

02/10 2 Opener (NC), - / 1 Normally open contact (NO), -

(2)

without Latching force 5 N

R Latching force 30 N

(3)

withoutPower to unlockAPower to lock

(4)

B1with Actuator B1B5with Actuator B5B6Lwith Actuator B6LB6Rwith Actuator B6R

(5)

1637 gold-plated contacts

(6)

2197 Manual release for Power to unlock

Documents

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

Operating instructions and Declaration of conformity (nl) 865 kB, 18.11.2016

Code: mrl azm170i nl

Operating instructions and Declaration of conformity (da) 867 kB, 17.11.2016

Code: mrl_azm170i_da

Operating instructions and Declaration of conformity (de) 941 kB, 11.10.2016

Code: mrl_azm170i_de

Operating instructions and Declaration of conformity (pt) 870 kB, 21.11.2016

Code: mrl_azm170i_pt

Operating instructions and Declaration of conformity (pl) 906 kB, 21.11.2016

Code: mrl_azm170i_pl

Operating instructions and Declaration of conformity (jp) 1 MB, 20.04.2016

Code: mrl_azm170i_jp

Operating instructions and Declaration of conformity (en) 957 kB, 11.10.2016

Code: mrl_azm170i_en

BG-test certificate (en) 260 kB, 09.12.2015

Code: z_m17p02

BG-test certificate (de) 257 kB, 09.12.2015

Code: z_m17p01

CCC certification (en) 5 MB, 26.10.2018

Code: q_371p02

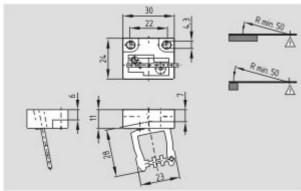
CCC certification (cn) 5 MB, 26.10.2018

Code: q_371p03

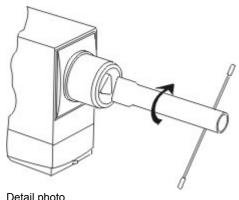
EAC certification (ru) 809 kB, 05.10.2015

Code: q_6040p17_ru

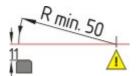
Images



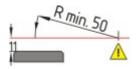
Dimensional drawing (actuator)







Actuating radius



Actuating radius

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.

Connector



A-K4M12

- Pre-wired cable
- 4-pole

S-K4M12

- Connector without cable
- 4-pole



K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal The data and values have been checked throroughly. Technical modifications and errors excepted. Generiert am 13.02.2019 - 14:46:00h Kasbase 3.3.0.F.64I