Datasheet - AZM 170-02ZRI-ST-B1 24 VAC/DC

Solenoid interlock / AZM 170I / AZM 170i-B1





- 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
- · Particularly suitable for sliding doors
- 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-B1 24 VAC/DC

101144299

4030661132471

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

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

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

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 292

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 140 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 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

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

On hinged guards, minimum actuating radius at 90° to the plane of the actuator 140 mm minimum actuating radius on hinged guards in line with the plane of the actuator 200 mm

The actuator is not available separately.

The axis of the hinge should be 10 mm above the top edge of the safety switch and in the same plane Manual release from side

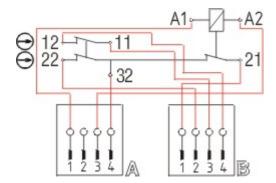
• For manual release using M5 triangular key, available as accessory

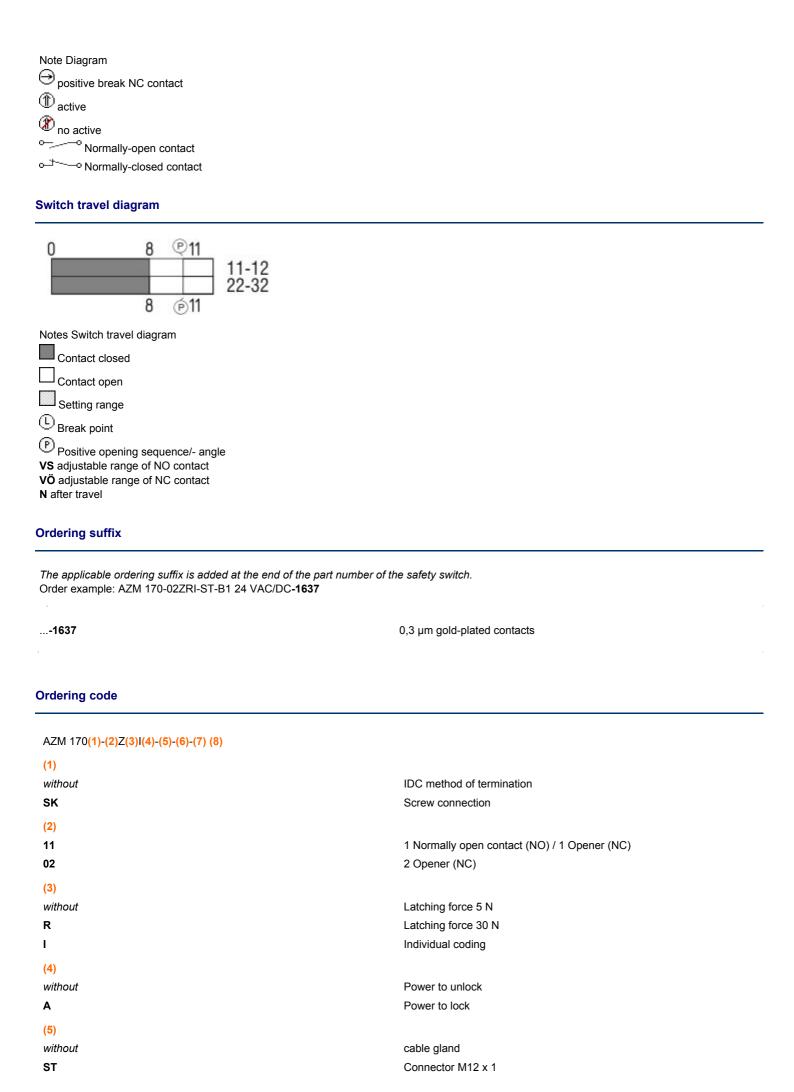
Included in delivery

Included in delivery

- · Individually coded actuator
- tamperproof screws
- Slot sealing plugs

Diagram





(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

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)

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)

12/00 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)

without Power to unlock 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

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

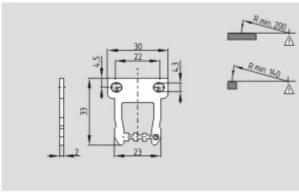
CCC certification (cn) 5 MB, 26.10.2018

Code: q_371p03

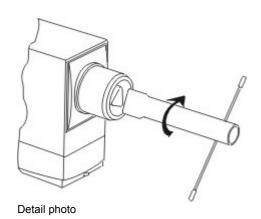
EAC certification (ru) 809 kB, 05.10.2015

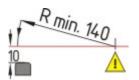
Code: q_6040p17_ru

Images

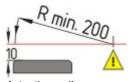


Dimensional drawing (actuator)





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 - 14:45:03h Kasbase 3.3.0.F.64I