Datasheet - AZM 170-11ZRIA-ST-B1 24 VAC/DC

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





- ullet Double-insulated lacksquare
- · 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

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

Ordering details

Product type description

Article number

EAN Code

eCl@ss

AZM 170-11ZRIA-ST-B1 24 VAC/DC

101144300

4030661132488

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

$$\begin{aligned} \text{MTTF}_d = \frac{B_{10d}}{0.1 \times n_{op}} \\ n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{oph}} \end{aligned}$$

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 279

Mechanical data

Design of electrical connection Connector M12

Mechanical life > 1.000.000 operations

Emergency unlocking device (Y/N) No Manual release (Y/N) No Emergency release (Y/N) No Latching force 30 Positive break force 8.5 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 Normally open contact (NO), Opener (NC)

Switching principle Creep circuit element

Number of auxiliary contacts1Number of safety contacts1Power to unlockNoPower to lockYes

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 6 A gG D-fuse

250 V

ATEX

Explosion protection categories for gases
Explosion protected category for dusts

Miscellaneous data

Applications



None

None

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.

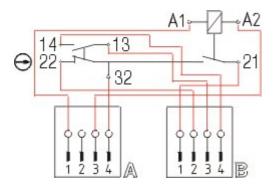
The axis of the hinge should be 10 mm above the top edge of the safety switch and in the same plane

Included in delivery

Included in delivery

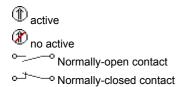
- · Individually coded actuator
- · tamperproof screws
- Slot sealing plugs

Diagram

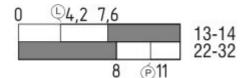


Note Diagram

positive break NC contact



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 170-11ZRIA-ST-B1 24 VAC/DC-1637

...-1637

0,3 µm gold-plated contacts

IDC method of termination

Ordering code

(1)

(4)

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

without

SK Screw connection

(2)

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

02 2 Opener (NC)

without Latching force 5 N

R Latching force 30 N

Individual coding

without Power to unlock

A Power to lock
(5)

without cable gland
ST Connector M12 x 1

ST Connector M12 x 1
(6)

B1 with Actuator B1

B5with 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)

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)

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

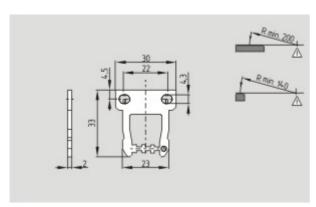
CCC certification (cn) 5 MB, 26.10.2018

Code: q_371p03

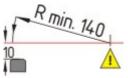
EAC certification (ru) 809 kB, 05.10.2015

Code: q_6040p17_ru

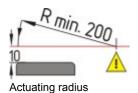
Images



Dimensional drawing (actuator)



Actuating radius



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 - 14:45:06h Kasbase 3.3.0.F.64I