Datasheet - AZM 170-02ZRI-B6L-2197 24 VAC/DC

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







- Double-insulated \square
- · 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 smal actuating radii in line with or at 90° to the plane of the
- · IDC method of termination
- Manual release

(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-B6L-2197 24 VAC/DC

101144353

4030661132945

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

$$MTTF_d = \frac{B_{100}}{0.1 \times n_{op}}$$

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

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 289

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

- 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 unlockYes

Power to lock No

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 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



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

- For manual release using M5 triangular key, available as accessory
- · Additional manual release on side

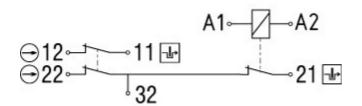
This type termination (IDC) method enables simple connetion of flexible conductors without the need for the use of conductor ferrules

Included in delivery

Included in delivery

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

Diagram



Note Diagram

opositive break NC contact

 $^{\scriptsize\textcircled{\scriptsize{1}}}_{\rm active}$

no active

O—____ Normally-open contact

o----- Normally-closed 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 170-02ZRI-B6L-2197 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

Screw connection

SK (2)

11

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

2 Opener (NC)

02 (3)

without

R

K I

(4)

Latching force 5 N

Latching force 30 N

Individual coding

without Power to unlock Α Power to lock (5) without cable gland ST Connector M12 x 1 (6) **B1** with Actuator B1 **B5** with Actuator B5 B₆L with Actuator B6L B6R with Actuator B6R (7) Manual release without 2197 Manual release from side (Power to unlock) 1637 gold-plated contacts (8) Us 24 VAC/DC 24VAC/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

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

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

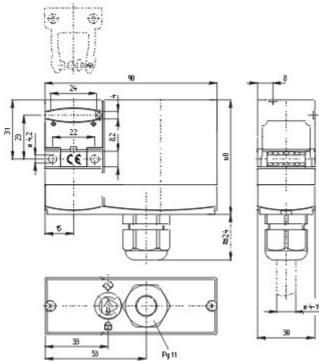
CCC certification (cn) 5 MB, 26.10.2018

Code: q_371p03

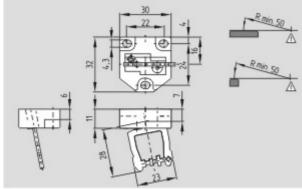
EAC certification (ru) 809 kB, 05.10.2015

Code: q_6040p17_ru

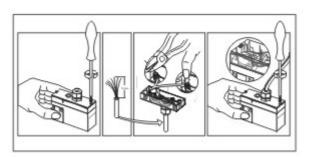
Images



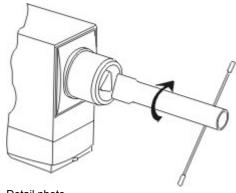
Dimensional drawing (basic component)



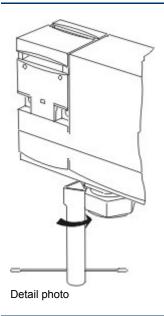
Dimensional drawing (miscellaneous)

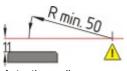


Assembly example

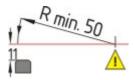


Detail photo





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.

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 - 14:45:40h Kasbase 3.3.0.F.64I