Datasheet - AZM 170-11ZRK-ST-2197 24 VAC/DC



Solenoid interlock / AZM 170





- Thermoplastic enclosure
- Double-insulated
- · Compact design
- 90 mm x 84 mm x 30 mm
- · Interlock with protection against incorrect locking.
- · Long life
- High holding force
- Manual release from side
- · Connector M12, 4-pole

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

Ordering details

Product type description

Article number

EAN Code

eCl@ss

AZM 170-11ZRK-ST-2197 24 VAC/DC

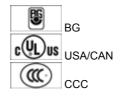
101141425

4030661121918

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

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

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

Global Properties

Permanent light

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

Compliance with the Directives (Y/N) C € Yes

Number of actuating directions

Active principle
Duty cycle ED

Materials

Material of the housings

- Material of the contacts

Housing coating

Weight

Magnet 100 %

Plastic, glass-fibre reinforced thermoplastic, self-extinguishing

Silver None

electromechanical

295

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

- bottom

- right

Emergency release (Y/N) No

Latching force 30

Positive break force 8.5

positive break travel 11 mm

Clamping force F 1000 N

Clamping force F 1000

Max. Actuating speed 2 m/s

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)

notice change-over contact with double break, type Zb or 2 NC contacts, with

galvanically separated contact bridges

Switching principle Creep circuit element

Number of auxiliary contacts1Number of safety contacts1Power to unlockYes

Power to lock No Rated control voltage U_{s} 24 VAC/DC

Power consumption max. 10 W
Rated impulse withstand voltage U_{imp} 4 kV
Rated insulation voltage U_i 250 V
Thermal test current l_{the} 10 A

Utilisation category AC-15: 230 V / 4 A, DC-13: 24 V / 4 A

Max. fuse rating 6 A gG D-fuse

ATEX

Miscellaneous data

Applications



sliding safety guard,



removable guard,



hinged safety guard

Dimensions

Dimensions of the sensor

- Width of sensor 108 - Height of sensor 75.5 - Length of sensor 30 mm

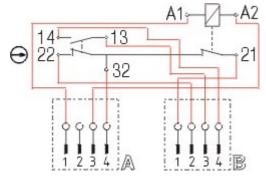
notice

Individual coding available on request

Manual release from side

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

Diagram



Note Diagram

opositive break NC contact

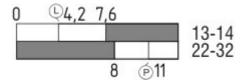




o-__-o Normally-open contact

o--t--- Normally-closed contact

Switch travel diagram



Notes Switch travel diagram



J_{Contact open}

Setting range
(L) Break point
Positive opening sequence/- angle
VS adjustable range of NO contact
VÖ adjustable range of NC contact

Ordering suffix

N after travel

The applicable ordering suffix is added at the end of the part number of the safety switch. Order example: AZM 170-11ZRK-ST-2197 24 VAC/DC-1637

...-1637 0,3 µm gold-plated contacts

...ST-2431 connector M12 , Individual solenoid monitoring

Ordering code

(2)

(3)

I

(4)

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

(4)

without IDC method of termination

SK Screw connection

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

02 2 Opener (NC)

12/0.0 1 Normally open contact (NO), 2 Opener (NC) / -

withoutLatching force 5 NRLatching force 30 N

Individual coding

without Power to unlock

A Power to lock

(5)withoutcable gland

ST Connector M12 x 1
ST-2431 Connector M12 x 1, Individual solenoid monitoring

(6) 24VAC/DC Us 24 VAC/DC

 110VAC
 Us 110 VAC

 230VAC
 Us 230 VAC

(7)
without
Manual release

2197 Manual release from side (Power to unlock)

1637 gold-plated contacts

AZM 170ST and AZM 170SK

AZM 170ST-(1)Z(2)K(3)-(4)-(5)-024 AZM 170SK-(1)Z(2)K(3)-(4)-(5)-024

(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)

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)

1637 gold-plated contacts

(5)

2197 Manual release for Power to unlock

Documents

Operating instructions and Declaration of conformity (fr) 701 kB, 15.02.2018

Code: mrl_azm170_fr

Operating instructions and Declaration of conformity (de) 668 kB, 11.01.2018

Code: mrl_azm170_de

Operating instructions and Declaration of conformity (it) 697 kB, 16.01.2018

Code: mrl_azm170_it

Operating instructions and Declaration of conformity (cn) 655 kB, 08.05.2017

Code: mrl_azm170_cn

Operating instructions and Declaration of conformity (nl) 702 kB, 12.07.2018

Code: mrl_azm170_nl

Operating instructions and Declaration of conformity (en) 700 kB, 11.01.2018

Code: mrl_azm170_en

Operating instructions and Declaration of conformity (jp) 843 kB, 23.08.2016

Code: mrl_azm170_jp

Operating instructions and Declaration of conformity (pl) 736 kB, 14.06.2018

Code: mrl_azm170_pl

Operating instructions and Declaration of conformity (da) 582 kB, 07.08.2012

Code: mrl_azm170_da

Operating instructions and Declaration of conformity (es) 702 kB, 17.01.2018

Code: mrl_azm170_es

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

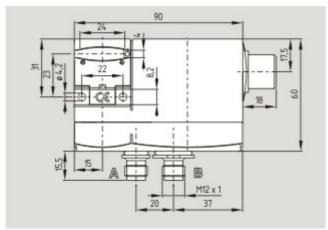
CCC certification (cn) 5 MB, 26.10.2018

Code: q_371p03

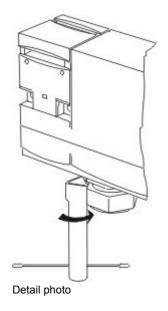
EAC certification (ru) 809 kB, 05.10.2015

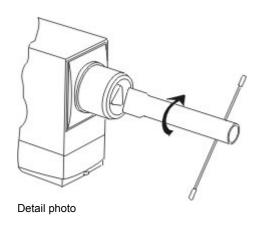
Code: q_6040p17_ru

Images



Dimensional drawing (basic component)





System components

Actuator



101122893 - AZ 17/170-B1

• Particularly suitable for sliding doors



101137406 - AZ 17/170-B1-2245

- Particularly suitable for sliding doors
- Damps vibration on guard device



101122895 - AZ 17/170-B5

• Particularly suitable for sliding doors



101139788 - AZ 17/170-B11

• Particularly suitable for sliding doors



101139789 - AZ 17/170-B15

• Particularly suitable for sliding doors

101123391 - AZM 170-B6

- Particularly suitable for hinged guards
- For very smal actuating radii
- The direction of actuation can be selected by applicable insertion of



the insert

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



A-K4M12

- Pre-wired cable
- 4-pole



S-K4M12

- Connector without cable
- 4-pole