Datasheet - AZM 170SK-11/02ZRK-2197 24VAC/DC

Solenoid interlock / AZM 170





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

- Thermoplastic enclosure
- Double-insulated
- · Compact design
- 90 mm x 84 mm x 30 mm
- 1 Cable entry M 20 x 1.5
- Interlock with protection against incorrect locking.
- Long life
- · High holding force
- · Manual release from side
- Screw connection

Ordering details

Product type description

Article number

EAN Code

eCl@ss

AZM 170SK-11/02ZRK-2197 24VAC/DC

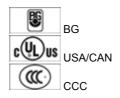
101183249

4030661319049

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

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

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

Global Properties

Permanent light AZM 170

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

Compliance with the Directives (Y/N)
Yes

Number of actuating directions

Active principle electromechanical
Duty cycle ED Magnet 100 %

Materials
- Material of the housings
Plastic, glass-fibre reinforced thermoplastic, self-extinguishing

- Material of the contacts Silver
Housing coating None
Weight 320

Mechanical data

Design of electrical connection Screw connection

Cable section

- Min. Cable section 1 x 0,25

- Max. Cable section 1 x 1.5, flexible

Mechanical life > 1.000.000 operations

Emergency unlocking device (Y/N)

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

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 contacts3Power to unlockYesPower to lockNo

Rated control voltage Us 24 VAC/DC

Power consumption max. 10 W

Rated impulse withstand voltage Uimp 4 kV

Rated insulation voltage Ui 250 V

Rated insulation voltage Ui 250 \
Thermal test current Ithe 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

Explosion protection categories for gases Explosion protected category for dusts None

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

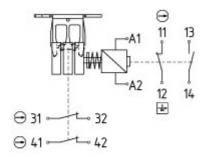
notice

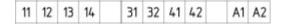
Individual coding available on request

Manual release from side

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

Diagram





Note Diagram

positive break NC contact



no active

o-__- Normally-open contact

o----- Normally-closed contact

Ordering suffix

...-1637 0,3 µm gold-plated contacts

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

Ordering code

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

(1)

without IDC method of termination

SK Screw connection

(2)

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

02 2 Opener (NC)

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

(3)

without Latching force 5 N R Latching force 30 N

Individual coding

(4)

I

without Power to unlock Α

Power to lock

(5)

without cable 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

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)

12/11

12/02

02/01

02/10

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) / -

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

(NO), 1 Opener (NC)

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

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

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

(2)

Latching force 5 N without R

Latching force 30 N

(3)

without Power to unlock

A Power to lock

(4)

1637 gold-plated contacts

(5)

2197 Manual release for Power to unlock

Documents

Operating instructions and Declaration of conformity (en) 634 kB, 23.05.2019

Code: mrl_azm170-xx-xx_en

Operating instructions and Declaration of conformity (da) 509 kB, 24.11.2015

Code: mrl_azm170-xx-xx_da

Operating instructions and Declaration of conformity (it) 631 kB, 28.05.2019

Code: mrl_azm170-xx-xx_it

Operating instructions and Declaration of conformity (nl) 532 kB, 29.06.2018

Code: mrl_azm170-xx-xx_nl

Operating instructions and Declaration of conformity (de) 605 kB, 23.05.2019

Code: mrl_azm170-xx-xx_de

Operating instructions and Declaration of conformity (cs) 546 kB, 24.11.2015

Code: mrl_azm170-xx-xx_cs

Operating instructions and Declaration of conformity (pt) 636 kB, 04.06.2019

Code: mrl_azm170-xx-xx_pt

Operating instructions and Declaration of conformity (jp) 601 kB, 07.09.2016

Code: mrl_azm170-xx-xx_jp

Operating instructions and Declaration of conformity (fr) $511\ kB,\,28.04.2016$

Code: mrl_azm170-xx-xx_fr

Operating instructions and Declaration of conformity (es) 656 kB, 31.05.2019

Code: mrl_azm170-xx-xx_es

Operating instructions and Declaration of conformity (pl) 691 kB, 31.05.2019

Code: mrl_azm170-xx-xx_pl

Operating instructions and Declaration of conformity (cn) 544 kB, 05.05.2017

Code: mrl_azm170-xx-xx_cn

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

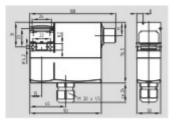
CCC certification (cn) 5 MB, 26.10.2018

Code: q_371p03

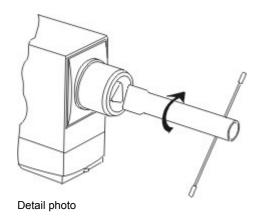
EAC certification (ru) 809 kB, 05.10.2015

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



• 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