Datasheet - AZM 170SK-02/10ZRK-2197 24 VAC/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-02/10ZRK-2197 24 VAC/DC

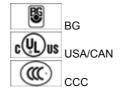
101181883

4030661316390

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

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

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

Permanent light

Standards

Compliance with the Directives (Y/N) € €

Number of actuating directions

Active principle Duty cycle ED

Materials

- Material of the housings

- Material of the contacts

Housing coating

Weight

AZM 170

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

Yes

electromechanical

Magnet 100 %

Plastic, glass-fibre reinforced thermoplastic, self-extinguishing

Silver

None

300

Mechanical data

Design of electrical connection

Cable section

- Min. Cable section

- Max. Cable section

Mechanical life

Emergency unlocking device (Y/N)

Manual release (Y/N)

- right

Emergency release (Y/N)

Latching force

Positive break force positive break travel

Clamping force F

Max. Actuating speed

Screw connection

1 x 0,25

1 x 1.5, flexible

> 1.000.000 operations

No

Yes

No

30

8.5

11 mm

1000 N

2 m/s

Ambient conditions

Ambient temperature

- Min. environmental temperature

- Max. environmental temperature

Protection class

-25 °C

+60 °C

IP67 to IEC/EN 60529

Electrical data

Design of control element

notice

Switching principle

Number of auxiliary contacts Number of safety contacts

Rated control voltage Us

Power to unlock Power to lock

Power consumption Rated impulse withstand voltage Uimp

Rated insulation voltage Ui Thermal test current Ithe

Utilisation category

Normally open contact (NO), Opener (NC)

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

galvanically separated contact bridges

Creep circuit element

2

Yes No

24 VAC/ DC max. 10 W

4 kV 250 V

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,



108

removable guard,

hinged safety guard

Dimensions

Dimensions of the sensor

- Width of sensor

- Height of sensor 100.5

- Length of sensor 30 mm

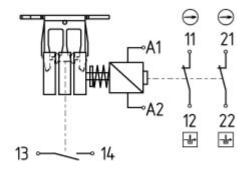
notice

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



1	1 12	21	22	13	14	A1	A2
---	------	----	----	----	----	----	----

Note Diagram

positive break NC contact





o-__-o Normally-open contact

o---¹---o Normally-closed contact

Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch. Order example: AZM 170SK-02/10ZRK-2197 24 VAC/DC-1637

...-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)

without IDC method of termination

SK Screw connection

(2)

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

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)

without Power to unlock Α

Power to lock

without cable gland

ST Connector M12 x 1

ST-2431 Connector M12 x 1, Individual solenoid monitoring

(6)

24VAC/DC Us 24 VAC/DC Us 110 VAC 110VAC

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)

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)

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)

12/02

02/01

02/10

without Latching force 5 N R

Latching force 30 N

(3)

without Power to unlock Α 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

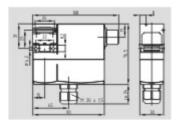
CCC certification (cn) 5 MB, 26.10.2018

Code: q_371p03

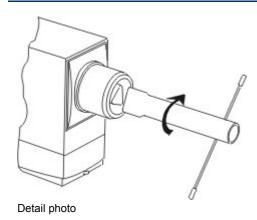
EAC certification (ru) 809 kB, 05.10.2015

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





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



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 26.07.2019 - 17:42:59h Kasbase 3.3.0.F.64I