Datasheet - AZM 170SK-11ZRK-2197 230 VAC

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-11ZRK-2197 230 VAC

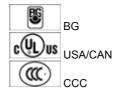
101144268

4030661132167

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

AZM 170 Permanent light

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

Compliance with the Directives (Y/N) $\zeta \in$ Yes Number of actuating directions 2

Active principle electromechanical Duty cycle ED Magnet 100 %

Materials

- Material of the contacts Silver Housing coating None 305

Weight

Mechanical data

- Material of the housings

Design of electrical connection Screw connection

Cable section

1 x 0,25 - Min. Cable section

- Max. Cable section 1 x 1.5, 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 8.5 positive break travel 11 mm 1000 N Clamping force F

2 m/s Max. Actuating speed

Ambient conditions

Ambient temperature

- Min. environmental temperature -25 °C - 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

Plastic, glass-fibre reinforced thermoplastic, self-extinguishing

Switching principle Creep circuit element

1 Number of auxiliary contacts Number of safety contacts 1 Power to unlock Yes Power to lock No

230 VAC Rated control voltage Us Power consumption max. 10 W Rated impulse withstand voltage Uimp 4 kV

250 V Rated insulation voltage Ui 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,



108

100.5

hinged safety guard

Dimensions

Dimensions of the sensor

- Width of sensor
- Height of sensor

- Length of sensor 30 mm

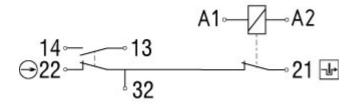
notice

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

opositive break NC contact

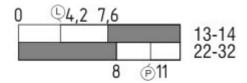




O—___O Normally-open contact

o----- Normally-closed contact

Switch travel diagram



Notes Switch travel diagram



Contact open Setting range Break point P 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 170SK-11ZRK-2197 230 VAC-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)	
(1)	
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
ı	Individual coding
(4)	Developed a contract.
without A	Power to unlock Power to lock
	rower to lock
(5) without	achla gland
ST	cable gland Connector M12 x 1
ST-2431	Connector M12 x 1, Individual solenoid monitoring
	Connected W12 X 1, marviadar colonida 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
	Δ7M 170ST and Δ7M 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)

12/02 1 Normally open contact (NO), 2 Opener (NC) / 2 Opener (NC)

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

02/10 2 Opener (NC), - / 1 Normally open contact (NO), -

(2)

02/01

without Latching force 5 N R

Latching force 30 N

(3)

without Power to unlock Power to lock Α

(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) 672 kB, 20.05.2019

Code: mrl azm170 de

Operating instructions and Declaration of conformity (it) 718 kB, 06.06.2019

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) 702 kB, 20.05.2019

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) 719 kB, 31.05.2019

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

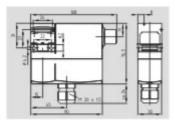
CCC certification (cn) 5 MB, 26.10.2018

Code: q_371p03

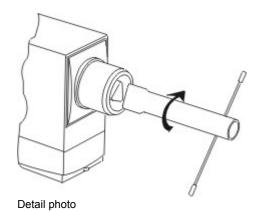
EAC certification (ru) 809 kB, 05.10.2015

Code: q_6040p17_ru

Images



Dimensional drawing (basic component)





Detail photo

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



- 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 - 17:27:16h Kasbase 3.3.0.F.64I