Datasheet - AZM 170-11ZK 230 VAC

Solenoid interlock / AZM 170





- 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
- 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

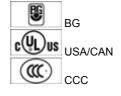
AZM 170-11ZK 230 VAC

101141776

4030661123301

Approval

Approval



Classification

Standards

B_{10d} Opener (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

Product name **AZM 170**

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

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

Active principle electromechanical Duty cycle Magnet 100 %

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

- Material of the contacts Silver Housing coating None 310 g Weight

Mechanical data

Materials

Design of electrical connection IDC method of termination

Cable section

Mechanical life

- Min. Cable section 1 x 0,75 mm² - Max. Cable section 1 x 1.0 mm², flexible

> 1.000.000 operations Emergency unlocking device (Y/N) No

- bottom

Manual release (Y/N) Yes Emergency release (Y/N) No Latching force 5 N Positive break force 8.5 N positive break travel 11 mm Clamping force Fmax 1000 N Max. Actuating speed 2 m/s

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)

Switching principle Creep circuit element

Number of auxiliary contacts 1 piece Number of safety contacts 1 piece 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 Rated insulation voltage Ui 250 V 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

None None

Miscellaneous data

Applications



sliding safety guard,



removable guard,



hinged safety guard

Dimensions

Dimensions of the sensor

Width of sensorHeight of sensor

- Length of sensor

90 mm

84 mm

30 mm

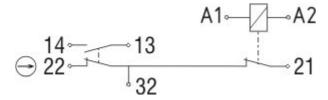
notice

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

Manual release

• For manual release using M5 triangular key, available as accessory

Diagram

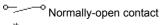


Note Diagram



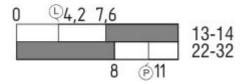






o----- Normally-closed contact

Switch travel diagram



Notes Switch travel diagram



Contact open



(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 170-11ZK 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)

without IDC method of termination

SK Screw connection

(2)

(1)

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

02 2 Opener (NC)

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

(3)

withoutLatching force 5 NRLatching force 30 N

Individual coding

(4)

without Power to unlock

A Power to lock

(5)

withoutcable glandSTConnector 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)

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 (de) 923 kB, 24.02.2011

Code: mrl_azm170_de

Operating instructions and Declaration of conformity (it) 645 kB, 09.04.2010

Code: mrl_azm170_it

Operating instructions and Declaration of conformity (en) 746 kB, 12.03.2010

Code: mrl_azm170_en

Operating instructions and Declaration of conformity (jp) 709 kB, 14.04.2011

Code: mrl_azm170_jp

Operating instructions and Declaration of conformity (pl) 576 kB, 11.07.2013

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) 665 kB, 25.03.2010

Code: mrl_azm170_es

BG-test certificate (en) 236 kB, 10.12.2013

Code: z_m17p02

BG-test certificate (de) 238 kB, 10.12.2013

Code: z_m17p01

CCC certification (en) 469 kB, 21.09.2012

Code: q_371p02

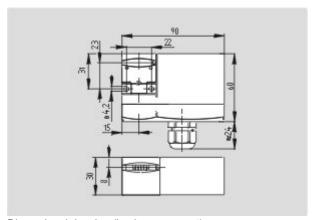
CCC certification (cn) 470 kB, 21.09.2012

Code: q_371p03

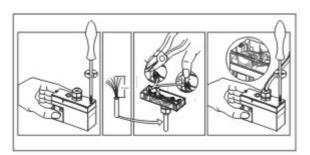
Gost certification (ru) 2 MB, 07.07.2011

Code: q_az1p01

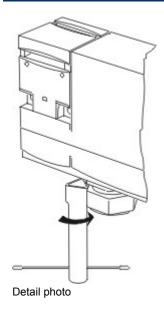
Images



Dimensional drawing (basic component)



Assembly example



System components

Actuator



101122893 - AZ 17/170-B1

• Particularly suitable for sliding doors



1137406 - AZ 17/170-B1-2245

· Damps vibration on guard device



1122895 - AZ 17/170-B5

• Particularly suitable for hinged guards (front mounting)



1139788 - AZ 17/170-B11

• Particularly suitable for sliding doors



1139789 - AZ 17/170-B15

• Particularly suitable for hinged guards (front mounting)



101123391 - AZM 170-B6

- · For very smal actuating radii
- The direction of actuation can be selected by applicable insertion of the insert





1208493 - AZM 170-B CENTERING GUIDE

• for AZ 17 and AZM 170



101100887 - TRIANGULAR KEY M5

- For manual release using M5 triangular key, available as accessory
- For maintenance, installation, etc.

Connector

A-K4M12

• Pre-wired cable





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 04.03.2014 - 11:32:36h Kasbase 2.2.18.F DBI

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