Datasheet - AZM 170-02ZRK 230 VAC

Solenoid interlock / AZM 170



■ Preferred typ



- 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

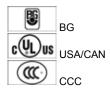
Product type description
Article number

EAN code

AZM 170-02ZRK 230 VAC 1136322 4030661056296

Approval

Approval



Classification

Standards

B_{10d} Opener (NC)

Mission time

notice

EN ISO 13849-1 2.000.000 20 Years

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

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

Global Properties

Product name

Standards

Compliance with the Directives (Y/N)

Number of actuating directions

Active principle Duty cycle Materials

- Material of the housings

- Material of the contacts

Housing coating

Weight

AZM 170

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

2 piece

electromechanical

Magnet 100 %

Plastic, glass-fibre reinforced thermoplastic, self-

extinguishing

Silver None

272 g

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)

- bottom

Emergency release (Y/N)

Latching force Positive break force

positive break travel

Clamping force F_{max}

Max. Actuating speed

IDC method of termination

1 x 0,75 mm²

1 x 1.0 mm², flexible

> 1.000.000 operations

No

Yes

No

30 N 17 N

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

Switching principle

Number of auxiliary contacts Number of safety contacts

Power to unlock Power to lock

Rated control voltage Us

Power consumption Rated impulse withstand voltage Uimp

Rated insulation voltage Ui Thermal test current Ithe

Utilisation category

Max. fuse rating

Opener (NC)

Creep circuit element

0 piece 2 piece

Yes

No

230 VAC max. 10 W

4 kV 250 V

10 A

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

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 90 mm 84 mm

- Length of sensor

30 mm

notice

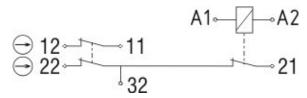
This type termination (IDC) method enables simple connetion of flexible conductors without the need for the use of conductor ferrules

Individual coding available on request

Manual release

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

Diagram



Note Diagram

positive break NC contact

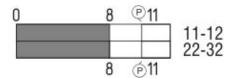


no active

Normally-open contact

■ Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

Contact closed

Contact open

Setting range

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 170-02ZRK 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

I Individual coding

(4)

without Power to unlockA Power to lock

(5)

without cable glandST 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)

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)

02/01 2 Opener (NC), - / 1 Opener (NC), -

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

(2)

without Latching force 5 NR Latching force 30 N

(3)

without Power to unlockA Power to lock

(4)

1637 gold-plated contacts

(5)

2197 Manual release for Power to unlock

CCC certification (en) 747 kB, 12.12.2006

Code: q_371p02

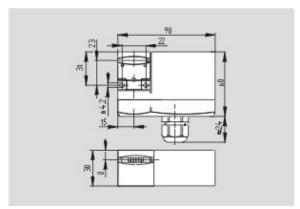
CCC certification (cn) 725 kB, 12.12.2006

Code: q_371p03

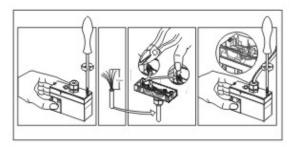
Gost certification (ru) 2 MB, 07.07.2011

Code: q_az1p01

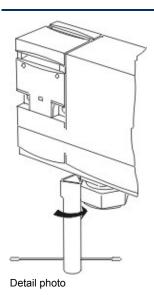
Images



Dimensional drawing (basic component)



Assembly example



System components

Actuator



1122893 - 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)



1123391 - AZM 170-B6

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

Accessories

1208493 - AZM 170-B CENTERING GUIDE

• for AZ 17 and AZM 170





1100887 - TRIANGULAR KEY 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

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The data and values have been checked throroughly. Technical modifications and errors excepted.
Generiert am 29.09.2011 - 09:58:38h Kasbase 1.5.5 DBI