


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

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
- Manual release from side
- Screw connection

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


Ordering details

Product type description	AZM 170SK-02ZRK-2197 24 VAC/DC
Article number	101144261
EAN code	4030661132099

Classification

Standards	EN ISO 13849-1
B10d Opener (NC)	2.000.000
Mission time	20 Years
notice	$MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{cycle}}$

Global Properties

Product name	AZM 170
Standards	EN 60947-5-1, BG-GS-ET-19
Compliance with the Directives (Y/N) 	Yes
Number of actuating directions	2 piece
Active principle	electromechanical
Duty cycle	Magnet 100 %
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing

- Material of the contacts	Silver
Housing coating	None
Weight	305 g

Mechanical data

Design of electrical connection	Screw connection
Cable section	
- Min. Cable section	1 x 0,75 mm ²
- Max. Cable section	1 x 1.5 mm ² , 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 N
Positive break force	17 N
positive break travel	11 mm
Clamping force F_{max}	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	Opener (NC)
Switching principle	Creep circuit element
Number of auxiliary contacts	0 piece
Number of safety contacts	2 piece
Power to unlock	Yes
Power to lock	No
Rated control voltage U_s	24 VAC/ DC
Power consumption	max. 10 W
Rated impulse withstand voltage U_{imp}	4 kV
Rated insulation voltage U_i	250 V
Thermal test current I_{the}	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	None
Explosion protected category for dusts	None

Miscellaneous data

Applications



sliding safety guard,



removable guard,



hinged safety guard

Dimensions

Dimensions of the sensor

- Width of sensor	108 mm
- Height of sensor	100.5 mm
- Length of sensor	30 mm

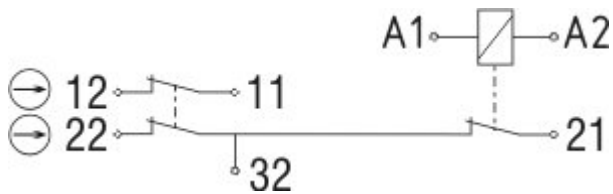
notice

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

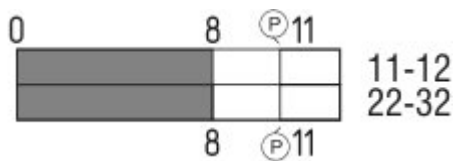
active

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 170SK-02ZRK-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)

(1)

without

SK

IDC method of termination

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

R

Latching force 5 N

I

Latching force 30 N

Individual coding

(4)

without

A

Power to unlock

Power to lock

(5)

without

ST

cable gland

Connector M12 x 1

ST-2431

Connector M12 x 1, Individual solenoid monitoring

(6)

24VAC/DC

U_s 24 VAC/DC

110VAC

U_s 110 VAC

230VAC

U_s 230 VAC

(7)

without

2197

Manual release

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 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 (da) 582 kB, 07.08.2012

Code: mrl_azm170_da

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

Code: mrl_azm170_it

Operating instructions and Declaration of conformity (es) 665 kB, 25.03.2010

Code: mrl_azm170_es

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

Code: mrl_azm170_en

Operating instructions and Declaration of conformity (fr) 670 kB, 01.07.2010

Code: mrl_azm170_fr

Operating instructions and Declaration of conformity (nl) 720 kB, 23.09.2010

Code: mrl_azm170_nl

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

Code: mrl_azm170_jp

Operating instructions and Declaration of conformity (de) 573 kB, 18.02.2011

Code: mrl_azm170_de

BG-test certificate (de) 589 kB, 05.01.2011

Code: z_m17p01

BG-test certificate (en) 574 kB, 05.01.2011

Code: z_m17p02

CCC certification (en) 469 kB, 21.09.2012

Code: q_371p02

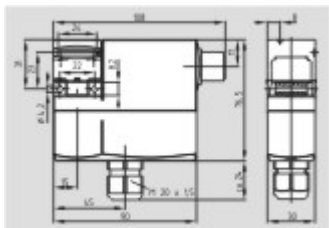
CCC certification (cn) 470 kB, 21.09.2012

Code: q_371p03

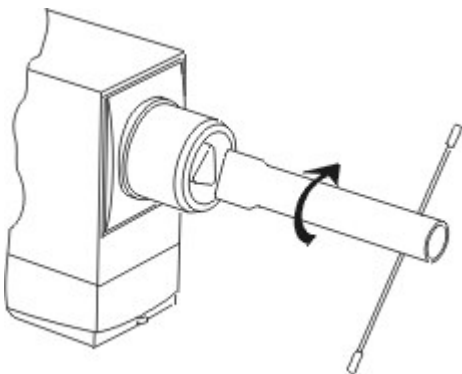
Gost certification (ru) 2 MB, 07.07.2011

Code: q_az1p01

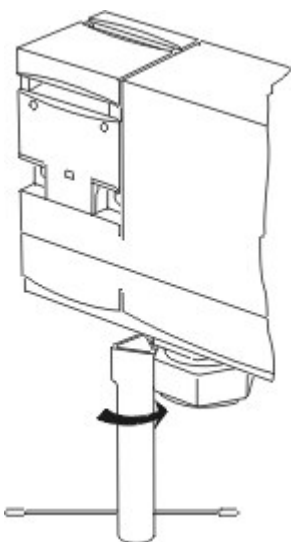
Images



Dimensional drawing (basic component)



Detail photo



Detail photo

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



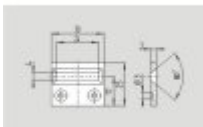
1139789 - AZ 17/170-B15

- Particularly suitable for hinged guards (front mounting)



101123391 - AZM 170-B6

- For very small 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



101100887 - 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 thoroughly. Technical modifications and errors excepted.

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