Datasheet - AZM 170SK-11/02ZRKA 24 VAC/DC

S SCHMERSAL

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
- Screw connection

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

Ordering details

Product type description

Article number

EAN Code

eCl@ss

AZM 170SK-11/02ZRKA 24 VAC/DC

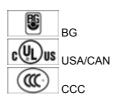
101183253

4030661319070

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

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

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

Global Properties

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

310

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) 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 Nο

No

30

17

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

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

Number of auxiliary contacts Number of safety contacts

Power to unlock

Power to lock

Switching principle

Rated control voltage Us Power consumption

Rated impulse withstand voltage Uimp Rated insulation voltage Ui

Thermal test current Ithe Utilisation category

1 3

No Yes

24 VAC/DC

max. 10 W 4 kV

250 V 10 A

AC-15: 230 V / 4 A

DC-13: 24 V / 4 A

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

90

- Height of sensor

100.5

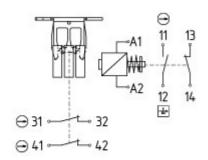
- Length of sensor

30 mm

notice

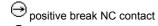
Individual coding available on request

Diagram





Note Diagram







O—___O Normally-open contact

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-11/02ZRKA 24 VAC/DC-1637

Ordering code

(3) without

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 unlock
A	Power to lock
(5)	
without	cable gland
ST	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 N
R	Latching force 30 N

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 (en) 509 kB, 21.04.2016

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) 509 kB, 22.04.2016

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) 494 kB, 21.04.2016

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) 515 kB, 08.07.2016

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) 512 kB, 24.11.2015

Code: mrl_azm170-xx-xx_es

Operating instructions and Declaration of conformity (pl) 549 kB, 02.06.2017

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

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 13.02.2019 - 14:44:41h Kasbase 3.3.0.F.64I