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

S SCHMERSAL

Solenoid interlock / AZM 170





(Minor differences between the printed image and the original product may

- 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

Ordering details

Product type description

Article number

EAN code

eCl@ss

exist!)

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

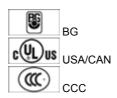
101183253

4030661319070

27-27-26-03

Approval

Approval



Classification

Standards

B_{10d} Opener (NC)

Mission time

notice

EN ISO 13849-1

2.000.000

20 Years

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

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

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 310 g

Mechanical data

Design of electrical connection Screw connection

Cable section

- Min. Cable section 1 x 0,25 mm²

- Max. Cable section $1 \times 1.5 \text{ mm}^2, \text{ flexible}$ Mechanical life > 1.000.000 operations

Emergency unlocking device (Y/N)

Manual release (Y/N)

No

Emergency release (Y/N)

No

Latching force

30 N

Latching force30 NPositive break force17 Npositive break travel11 mmClamping force F1000 NMax. Actuating speed2 m/s

Ambient conditions

Ambient temperature

- Min. environmental temperature $$-25\ ^{\circ}\text{C}$$ - Max. environmental temperature $$+60\ ^{\circ}\text{C}$$

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

Switching principle Creep circuit element

Number of auxiliary contacts1 pieceNumber of safety contacts3 piecePower to unlockNoPower to lockYes

Rated control voltage Us 24 VAC/DC 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:

ilisation category 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

- Height of sensor

- Length of sensor

90 mm

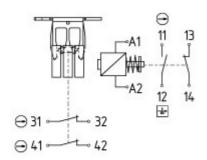
100.5 mm

30 mm

notice

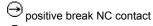
Individual coding available on request

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) 511 kB, 24.11.2015

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) 384 kB, 26.06.2012

Code: mrl_azm170-xx-xx_pt

Operating instructions and Declaration of conformity (jp) 535 kB, 27.05.2011

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) 543 kB, 10.09.2015

Code: mrl_azm170-xx-xx_pl

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) 596 kB, 23.06.2014

Code: q_371p02

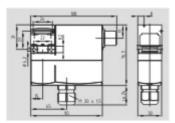
CCC certification (cn) 607 kB, 23.06.2014

Code: q_371p03

EAC certification (ru) 809 kB, 05.10.2015

Code: q_6040p17_ru

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 15.07.2016 - 18:12:39h Kasbase 3.2.4.F.64I