26.07.2019

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Datasheet - AZM 170SK-11ZRKA 110 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
 - Screw connection
 - Manual release

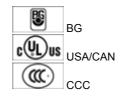
(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description Article number EAN Code eCl@ss AZM 170SK-11ZRKA 110 VAC 101144943 4030661134925 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 = $\frac{B_{100}}{0.1 \times n_{op}}$

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

Permanent light	AZM 170
Standards	EN 60947-5-1, BG-GS-ET-19
Compliance with the Directives (Y/N) CE	Yes
Number of actuating directions	2
Active principle	electromechanical
Duty cycle ED	Magnet 100 %
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
- Material of the contacts	Silver
Housing coating	None
Weight	290

Mechanical data

Design of electrical connection	Screw connection	
Cable section		
- Min. Cable section	1 x 0,25	
- Max. Cable section	1 x 1.5, flexible	
Mechanical life	> 1.000.000 operations	
Emergency unlocking device (Y/N)	No	
Manual release (Y/N)	Yes	
- bottom		
Emergency release (Y/N)	No	
Latching force	30	
Positive break force	8.5	
positive break travel	11 mm	
Clamping force F	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

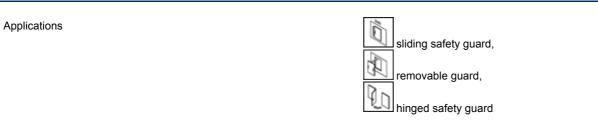
Electrical data

Desire of eached element	
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 contacts	1
Number of safety contacts	1
Power to unlock	No
Power to lock	Yes
Rated control voltage Us	110 VAC
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

ATEX

Explosion protection categories for gases Explosion protected category for dusts None None

Miscellaneous data



Dimensions

Dimensions of the sensor		
- Width of sensor	90	
- Height of sensor	100.5	
- Length of sensor	30 mm	

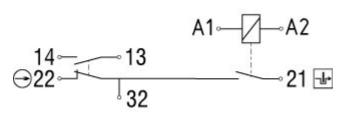
notice

Individual coding available on request

Manual release

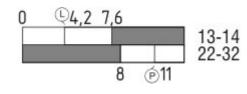
• For manual release using M5 triangular key, available as accessory

Diagram



Note Diagram → positive break NC contact ① active 2 no active → Normally-open contact → Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

Contact closed

Contact open
Setting range
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 170SK-11ZRKA 110 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)	
(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
Α	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 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
Α	Power to lock
(4)	
1637	gold-plated contacts
(5)	
2197	Manual release for Power to unlock

Documents

Operating instructions and Declaration of conformity (fr) 701 kB, 15.02.2018 Code: mrl_azm170_fr

Operating instructions and Declaration of conformity (de) 672 kB, 20.05.2019 Code: mrl_azm170_de

Operating instructions and Declaration of conformity (it) 718 kB, 06.06.2019 Code: mrl_azm170_it

Operating instructions and Declaration of conformity (cn) 655 kB, 08.05.2017 Code: mrl_azm170_cn

Operating instructions and Declaration of conformity (nl) 702 kB, 12.07.2018 Code: mrl_azm170_nl

Operating instructions and Declaration of conformity (en) 702 kB, 20.05.2019 Code: mrl_azm170_en

Operating instructions and Declaration of conformity (jp) 843 kB, 23.08.2016 Code: mrl_azm170_jp

Operating instructions and Declaration of conformity (pl) 736 kB, 14.06.2018 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) 719 kB, 31.05.2019 Code: mrl_azm170_es Code: z_m17p02

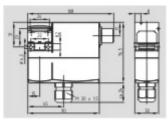
BG-test certificate (de) 257 kB, 09.12.2015 Code: z_m17p01

CCC certification (en) 5 MB, 26.10.2018 Code: q_371p02

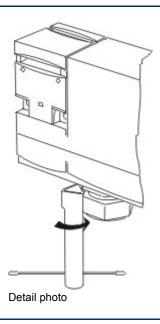
CCC certification (cn) 5 MB, 26.10.2018 Code: q_371p03

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



• 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 26.07.2019 - 17:37:48h Kasbase 3.3.0.F.64l