13.02.2019

14:44:28h

SCHMERSAL

Datasheet - AZM 170-11ZRKA-ST 24 VAC/DC

Solenoid interlock / AZM 170

Preferred typ



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

Ordering details

Product type description Article number EAN Code eCl@ss AZM 170-11ZRKA-ST 24 VAC/DC 101141455 4030661122014 27-27-26-03

Approval





Classification

Standards B10d Normally-closed contact (NC) Mission time notice EN ISO 13849-1 2.000.000 20 Years $MTTF_{d} = \frac{B_{10d}}{0.1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{oycle}}$

Global Properties

Permanent light

| 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 | 285 |
| | |

Mechanical data

| Design of electrical connection | Connector M12 |
|----------------------------------|------------------------|
| Mechanical life | > 1.000.000 operations |
| Emergency unlocking device (Y/N) | No |
| - bottom | |
| Manual release (Y/N) | Yes |
| 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

| 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 | 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: 230 V / 4 A, DC-13: 24 V / 4 A |
| Max. fuse rating | 6 A gG D-fuse |
| | |

ATEX

| Explosion protection categories for gases | |
|---|--|
| Explosion protected category for dusts | |

Applications

sliding safety guard, removable guard,

Dimensions

| Dimensions of the sensor | |
|--------------------------|-------|
| - Width of sensor | 90 |
| - Height of sensor | 75.5 |
| - Length of sensor | 30 mm |

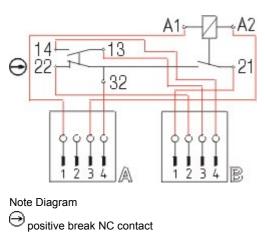
notice

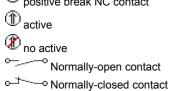
Individual coding available on request

Manual release

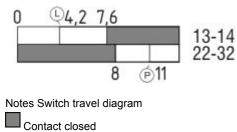
• For manual release using M5 triangular key, available as accessory

Diagram





Switch travel diagram





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 170-11ZRKA-ST 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 IDC method of termination SK Screw connection (2) 1 Normally open contact (NO) / 1 Opener (NC) 11 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 Power to lock Α (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 |
| (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) 668 kB, 11.01.2018 Code: mrl_azm170_de

Operating instructions and Declaration of conformity (it) 697 kB, 16.01.2018 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) 700 kB, 11.01.2018 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) 702 kB, 17.01.2018 Code: mrl_azm170_es

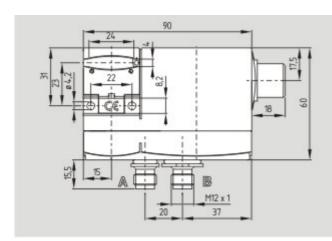
BG-test certificate (en) 260 kB, 09.12.2015 Code: z_m17p02

BG-test certificate (de) 257 kB, 09.12.2015 Code: z_m17p01 **CCC certification** (en) 5 MB, 26.10.2018 Code: q_371p02

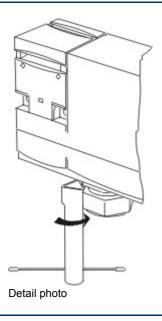
CCC certification (cn) 5 MB, 26.10.2018 Code: q_371p03

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









S-K4M12

- Connector without cable
- 4-pole

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 - 14:44:29h Kasbase 3.3.0.F.64I