Datasheet - AZM 161SK-12/12RI-024-B1

Solenoid interlock / AZM 161I / AZM 161I-B1





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

- Compact design
- · Interlock with protection against incorrect locking.
- · Individual coding
- · Coding level "High" according to ISO 14119
- Double-insulated
- High holding force
- · Long life
- 130 mm x 90 mm x 30 mm
- 1 Cable entry M 20 x 1.5
- Screw connection
- · Manual release from side
- Particularly suitable for sliding doors

Ordering details

Product type description

Article number

EAN code

eCl@ss

AZM 161SK-12/12RI-024-B1

101213351

4030661396002

27-27-26-03

Approval

Approval



Classification

Standards

B_{10d} Normally-closed contact (NC)

Mission time

notice

EN ISO 13849-1

2.000.000

20 Years

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

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

Global Properties

Product name

Standards

Compliance with the Directives (Y/N) $\zeta \in$

Number of actuating directions

AZM 161I

EN 60947-5-1, BG-GS-ET-19

Yes

3 piece

Active principle electromechanical

- Individual coding

- Coding level "High" according to ISO 14119

Duty cycle Magnet 100 %

Materials

- Material of the housings glass-fibre reinforced thermoplastic, Plastic self-extinguishing,

- Material of the actuator Stainless steel

- Material of the contacts Silver
Housing coating None
Weight 490 g

Mechanical data

Design of electrical connection Screw connection

Cable section

- Min. Cable section 1 x 0,25 mm²

Max. Cable section
 Mechanical life
 1 x 1.5 mm², flexible
 > 1.000.000 operations

notice All indications about the cable section are including the conductor ferrules.

Emergency unlocking device (Y/N)

Manual release (Y/N)

Emergency release (Y/N)

No

Emergency release (Y/N)

Latching force

30 N

Positive break force

20 N

positive break travel

10 mm

Clamping force F

2000 N

Max. Actuating speed

2 m/s

Minimum actuating radius

Minimum actuating radius 150 mm

Actuating frequency max. 1000 / h

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)

Switching principle Creep circuit element

Number of auxiliary contacts2 pieceNumber of safety contacts4 piecePower to unlockYesPower to lockNo

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 line 6 A

Utilisation category AC-15: 230 V / 4 A DC-13: 24 V / 2,5 A

Max. fuse rating 6 A gG D-fuse To DIN EN 60269-1

ATEX

Explosion protection categories for gases Explosion protected category for dusts

None

None

Miscellaneous data

Applications

sliding safety guard,



removable guard,



130 mm

30 mm

hinged safety guard

Dimensions

Dimensions of the sensor

- Width of sensor - Height of sensor 90 mm - Length of sensor

notice

On hinged guards, minimum actuating radius at 90° to the plane of the actuator 180 mm minimum actuating radius on hinged guards in line with the plane of the actuator 150 mm

The actuator is not available separately.

The axis of the hinge should be 5 mm above the top edge of the safety switch and in the same plane Manual release

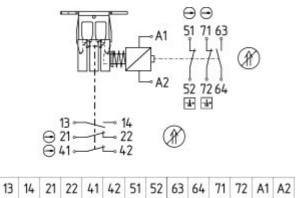
- For manual release using M5 triangular key, available as accessory
- For maintenance, installation, etc.

Included in delivery

Included in delivery

- · Individually coded actuator
- · tamperproof screws
- · Slot sealing plugs

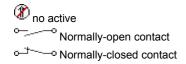
Diagram



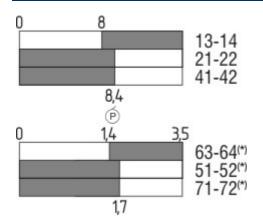
Note Diagram

opositive break NC contact

 $^{\scriptsize\textcircled{\scriptsize{1}}}$ active



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 161SK-12/12RI-024-B1-1637

...-1637

0,3 µm gold-plated contacts

Documents

Operating instructions and Declaration of conformity (en) 562 kB, 20.01.2016

Code: mrl_azm161i_en

Operating instructions and Declaration of conformity (jp) 767 kB, 12.04.2016

Code: mrl_azm161i_jp

Operating instructions and Declaration of conformity (nl) 511 kB, 15.08.2012

Code: mrl_azm161i_nl

Operating instructions and Declaration of conformity (da) 504 kB, 27.08.2012

Code: mrl_azm161i_da

Operating instructions and Declaration of conformity (de) 565 kB, 20.01.2016

Code: mrl_azm161i_de

Operating instructions and Declaration of conformity (pl) 589 kB, 06.04.2016

Code: mrl_azm161i_pl

Operating instructions and Declaration of conformity (es) 444 kB, 09.03.2016

Code: mrl_azm161i_es

Operating instructions and Declaration of conformity (pt) 573 kB, 27.04.2017

Code: mrl_azm161i_pt

Operating instructions and Declaration of conformity (sv) 498 kB, 27.08.2012

Code: mrl_azm161i_sv

Operating instructions and Declaration of conformity (cs) 586 kB, 19.04.2016

Code: mrl_azm161i_cs

Operating instructions and Declaration of conformity (it) 562 kB, 19.04.2016

Code: mrl_azm161i_it

Operating instructions and Declaration of conformity (fr) 567 kB, 28.04.2016

Code: mrl_azm161i_fr

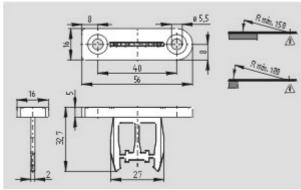
EAC certification (ru) 809 kB, 05.10.2015

Code: q_6040p17_ru

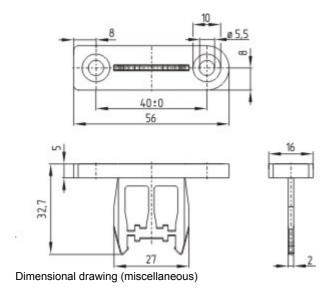
Images



Product photo



Dimensional drawing (miscellaneous)





Actuating radius



Actuating radius

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 05.10.2017 - 11:09:06h Kasbase 3.2.7.F.64I