# 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

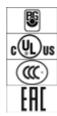
101213351

4030661396002

27-27-26-03

### **Approval**

Approval



## Classification

Standards

B10d Normally-closed contact (NC)

Mission time

notice

EN ISO 13849-1

2.000.000

20 Years

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

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

## **Global Properties**

Permanent light

Standards

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

Number of actuating directions

AZM 161I

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

Yes

3

Active principle

electromechanical

Screw connection

Magnet 100

- Individual coding

- Material of the housings

- Coding level "High" according to ISO 14119

Duty cycle

Materials

glass-fibre reinforced thermoplastic, Plastic self-extinguishing,

- Material of the actuator Stainless steel

- Material of the contacts Silver
Housing coating None
Weight 490

### **Mechanical data**

Design of electrical connection

Cable section

- Min. Cable section 1 x 0,25

- Max. Cable section 1 x 1.5, flexible

Mechanical life > 1.000.000 operations

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

Emergency unlocking device (Y/N)NoManual release (Y/N)YesEmergency release (Y/N)NoLatching force30Positive break force20positive break travel10

positive break travel 10

Clamping force 2000

Max. Actuating speed 2

Minimum actuating radius 150

Actuating frequency 1000 /

## **Ambient conditions**

Ambient temperature

Min. environmental temperature
 Max. environmental temperature
 +60

Protection class IP67 to IEC/EN 60529

# **Electrical data**

Design of control element Normally open contact (NO), Opener (NC)

Switching principle Creep circuit element

2 Number of auxiliary contacts Number of safety contacts 4 Power to unlock Yes Power to lock No Rated control voltage 24 V/DC 10 Power consumption Rated impulse withstand voltage 4 Rated insulation voltage 250 Thermal test current 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

S

sliding safety guard,



removable guard,



hinged safety guard

#### **Dimensions**

Dimensions of the sensor

- Width of sensor
- Height of sensor
- Length of sensor
30

#### 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

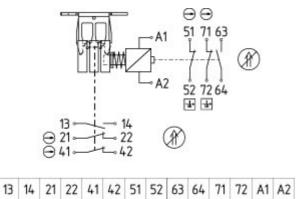
- For manual release using M5 triangular key, available as accessory
- For maintenance, installation, etc.

### Included in delivery

Included in delivery

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

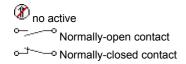
# Diagram



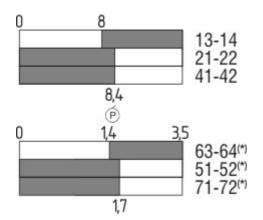
# Note Diagram

opositive break NC contact





### 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) 574 kB, 16.11.2017

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) 620 kB, 29.11.2017

Code: mrl\_azm161i\_nl

Operating instructions and Declaration of conformity (da) 618 kB, 21.11.2017

Code: mrl\_azm161i\_da

Operating instructions and Declaration of conformity (de) 577 kB, 16.11.2017

Code: mrl\_azm161i\_de

Operating instructions and Declaration of conformity (pl) 648 kB, 29.11.2017

Code: mrl\_azm161i\_pl

Operating instructions and Declaration of conformity (es) 617 kB, 23.11.2017

Code: mrl\_azm161i\_es

Operating instructions and Declaration of conformity (pt) 623 kB, 29.11.2017

Code: mrl\_azm161i\_pt

Operating instructions and Declaration of conformity (sv) 619 kB, 29.11.2017

Code: mrl\_azm161i\_sv

Operating instructions and Declaration of conformity (cs) 640 kB, 21.11.2017

Code: mrl\_azm161i\_cs

Operating instructions and Declaration of conformity (it) 618 kB, 29.11.2017

Code: mrl\_azm161i\_it

Operating instructions and Declaration of conformity (fr) 624 kB, 23.11.2017

Code: mrl\_azm161i\_fr

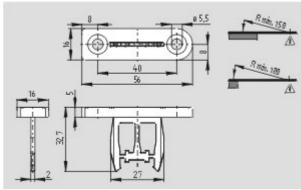
**EAC certification** (ru) 809 kB, 05.10.2015

Code: q\_6040p17\_ru

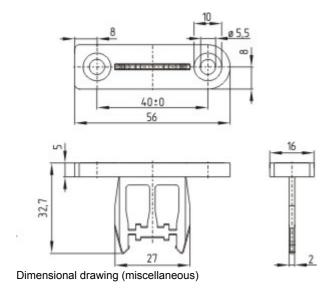
### **Images**



### 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 13.02.2019 - 14:43:31h Kasbase 3.3.0.F.64I