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# Datasheet - AZM 161CC-12/12RKA-024

Solenoid interlock / AZM 161



Preferred typ





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

- thermoplastic enclosure
- Double-insulated □
- · Interlock with protection against incorrect locking.
- 130 mm x 90 mm x 30 mm
- 6 Contacts
- · Long life
- · Large wiring compartment
- Manual release
- cable entries 4 M 16 x 1.5

## **Ordering details**

Product type description

Article number

EAN code

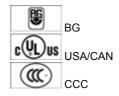
AZM 161CC-12/12RKA-024

1166287

4030661213996

## **Approval**

Approval



#### Classification

Standards

B<sub>10d</sub> Opener (NC)

Mission time

notice

EN ISO 13849-1 2.000.000 20 Years

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

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

### **Global Properties**

Product name AZM 161

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

Compliance with the Directives (Y/N)  $\subset \epsilon$ Yes

Number of actuating directions 3 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 500 g

#### Mechanical data

Actuating play in direction of actuation 5.5 mm

Design of electrical connection Cage clamps

Cable section

- Min. Cable section 1 x 0,75 mm<sup>2</sup> - Max. Cable section 1 x 1.5 mm<sup>2</sup>

Mechanical life > 1.000.000 operations

Emergency unlocking device (Y/N) No Manual release (Y/N) Yes Emergency release (Y/N) No Latching force 30 N 20 N Positive break force positive break travel 10 mm 2000 N Clamping force Fmax 2 m/s Max. Actuating speed

max. 1000 / h Actuating frequency

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

6 A

#### **Ambient conditions**

Ambient temperature

- Min. environmental temperature -25 °C - Max. environmental temperature +60 °C

Protection class IP67 to IEC/EN 60529

#### **Electrical data**

Thermal test current Ithe

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

Switching principle Creep circuit element

Number of auxiliary contacts 2 piece Number of safety contacts 4 piece Power to unlock No Power to lock Yes

24 VAC/DC Rated control voltage Us Power consumption max. 10 W Rated impulse withstand voltage Uimp 4 kV Rated insulation voltage Ui 250 V

AC-15: 230 V / 4 A, Utilisation category 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

90 mm

hinged safety guard

### **Dimensions**

Dimensions of the sensor

- Width of sensor
- Height of sensor

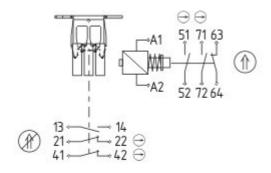
- Length of sensor 30 mm

#### notice

#### Manual release

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

### Diagram





## Note Diagram

opositive break NC contact

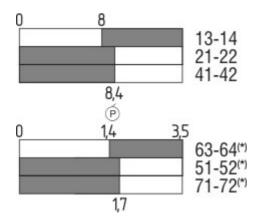




O—\_\_\_ONormally-open contact

o-t---o 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 161CC-12/12RKA-024**G** 

...G

Protected against incorrect polarity and voltage spikes.

limited terminating space 0,75 mm<sup>2</sup>

Diagram

14 guard open

13 +24 VDC

63 0 VDC

64 unlocked

## **Ordering code**

### AZM 161 (1)-(2)(3)K(4)-(5)-(6)(7)

(1)

**SK** Screw connection

CC Cage clamps

ST male connector M12, 8- and 4-poles (Only for Us: 24 VAC/DC)

(2)

12/12 2 Normally open contact (NO) / 4 Opener (NC)

12/11 2 Normally open contact (NO) / 3 Opener (NC) (Plug-in connection)

11/12 2 Normally open contact (NO) / 3 Opener (NC) (Plug-in connection)

(3)

without Latching force 5 N

R Latching force 30 N

(4)

without Power to unlock

A Power to lock

(5)

without Manual release lateralED Manual release cover-sideEU Manual release rear

T Emergency exit lateralTD Emergency exit cover-sideTU Emergency exit rear

N Emergency release

(6)

**024** Us: 24 VAC/DC **110/230** Us: 110/230 VAC

**(7)** 

**G** with LED (Only for Us: 24 VAC/DC)

#### **Documents**

Operating instructions and Declaration of conformity (de) 421 kB, 17.02.2011

Code: mrl\_azm161\_de

Operating instructions and Declaration of conformity (it) 706 kB, 16.12.2009

Code: mrl\_azm161\_it

Operating instructions and Declaration of conformity (fr) 752 kB, 16.12.2009

Code: mrl\_azm161\_fr

Operating instructions and Declaration of conformity (es) 711 kB, 16.12.2009

Code: mrl\_azm161\_es

Operating instructions and Declaration of conformity (en) 751 kB, 16.12.2009

Code: mrl\_azm161\_en

Operating instructions and Declaration of conformity (nl) 659 kB, 16.12.2009

Code: mrl azm161 nl

Operating instructions and Declaration of conformity (jp) 1 MB, 24.11.2010

Code: mrl\_azm161\_jp

**BG-test certificate** (de) 219 kB, 09.02.2010

Code: z\_m16p01

BG-test certificate (en) 219 kB, 09.02.2010

Code: z\_m16p02

CCC certification (en) 747 kB, 12.12.2006

Code: q\_371p02

CCC certification (cn) 725 kB, 12.12.2006

Code: q\_371p03

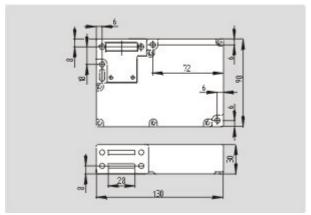
Gost certification (ru) 2 MB, 07.07.2011

Code: q\_az1p01

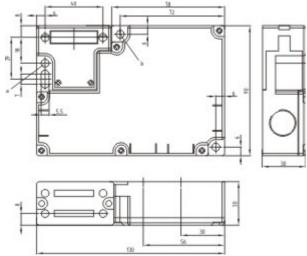
notice (de, en) 88 kB, 27.09.2007

Code: s\_161p01

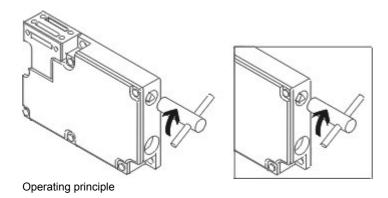
# **Images**



Dimensional drawing (basic component)



Dimensional drawing (basic component)



## **System components**

## **Actuator**

ITL

1145117 - AZM 161-B1



ITL

1171859 - AZM 161-B1ES



1175431 - AZM 161-B1F



1171125 - AZM 161-B1S



1173089 - AZM 161-B1-2053 WITH BALL LATCH



1164100 - AZM 161-B1-1747 WITH MAGNETIC LATCH



1178199 - AZM 161-B1-2024



1176642 - AZM 161-B1-2177 WITH CENTERING GUIDE



#### 1174113 - AZM 161-B6-2177 WITH CENTERING GUIDE

• For very smal actuating radii



1170375 - AZM 161-B6S



### 1144420 - AZM 161-B6

• For very smal actuating radii

## **Door-handle system**



### **AZM 161-STS30**

- Latching handle
- Suitable for all types of guard

## **Accessories**



## 1100887 - TRIANGULAR KEY M5

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

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The data and values have been checked throroughly. Technical modifications and errors excepted.
Generiert am 03.10.2011 - 10:37:24h Kasbase 1.5.5 DBI