Datasheet - AZM 161SK-12/12RKA-024

Solenoid interlock / AZM 161

X 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
- 4 cable entries M 16 x 1.5

Ordering details

Product type description

Article number

EAN Code

eCl@ss

AZM 161SK-12/12RKA-024

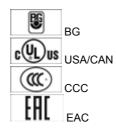
101166285

4030661213972

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

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

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

Global Properties

Permanent light AZM 161

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

Compliance with the Directives (Y/N) Yes

Number of actuating directions 3

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 460

Mechanical data

Actuating play in direction of actuation 5.5 mm

Design of electrical connection Screw connection

Cable section

- Min. Cable section 1 x 0,25- Max. Cable section 1 x 1.5

Mechanical life > 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

Latching force

70

Positive break force

positive break travel

10

Clamping force F 2000 N
Max. Actuating speed 2 m/s

Actuating frequency max. 1000 / h

Ambient conditions

Ambient temperature

Min. environmental temperature
 Max. environmental temperature
 +60 °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 contacts2Number of safety contacts4Power to unlockNoPower to lockYes

Rated control voltage Us 24 VAC/DC

Power consumption max. 10 W

Power consumption max. 10 W

Rated impulse withstand voltage Uimp 4 kV

Rated insulation voltage Ui 250 V

Rated insulation voltage Ui 250 \
Thermal test current Ithe 6 A

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

Required rated short-circuit current

Max. fuse rating

1000 A

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,



hinged safety guard

Dimensions

Dimensions of the sensor

- Width of sensor

130 mm

- Height of sensor

90 mm

- Length of sensor

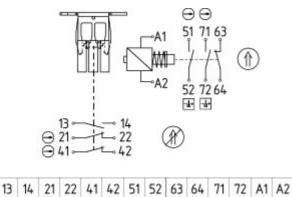
30 mm

notice

Manual release

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

Diagram



Note Diagram

opositive break NC contact

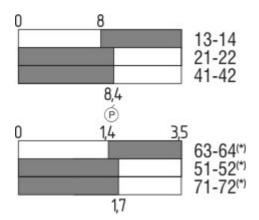




o-__-o Normally-open contact

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

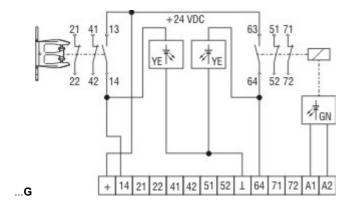
VS adjustable range of NO contact

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 161SK-12/12RKA-024G



Protected against incorrect polarity and voltage spikes. limited terminating space 0,75 mm²

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

CC

ST

(2)

12/12

12/11

11/12

(3)

without

R

Screw connection

Cage clamps

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

- 2 Normally open contact (NO) / 4 Opener (NC)
- 2 Normally open contact (NO) / 3 Opener (NC) (Plug-in connection)
- 2 Normally open contact (NO) / 3 Opener (NC) (Plug-in connection)

Latching force 5 N

Latching force 30 N

(4)

without Power to unlock

A Power to lock

(5)

without

ED

Manual release lateral

Manual release cover-side

EU

Manual release rear

T

Emergency exit lateral

TD

Emergency exit cover-side

TU

Emergency exit rear

(6)

Ν

 024
 Us: 24 VAC/DC

 110/230
 Us: 110/230 VAC

(7)

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

Emergency release

Documents

Operating instructions and Declaration of conformity (sv) 423 kB, 15.08.2012

Code: mrl_azm161_sv

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

Code: mrl_azm161_es

Operating instructions and Declaration of conformity (de) 487 kB, 21.01.2019

Code: mrl_azm161_de

Operating instructions and Declaration of conformity (pt) 507 kB, 09.12.2016

Code: mrl_azm161_pt

Operating instructions and Declaration of conformity (en) 523 kB, 21.01.2019

Code: mrl_azm161_en

Operating instructions and Declaration of conformity (pl) 466 kB, 06.04.2016

Code: mrl_azm161_pl

Operating instructions and Declaration of conformity (fr) 444 kB, 28.04.2016

Code: mrl_azm161_fr

Operating instructions and Declaration of conformity (cs) 464 kB, 23.08.2017

Code: mrl_azm161_cs

Operating instructions and Declaration of conformity (jp) 728 kB, 23.08.2016

Code: mrl_azm161_jp

Operating instructions and Declaration of conformity (it) 438 kB, 19.04.2016

Code: mrl_azm161_it

Operating instructions and Declaration of conformity (nl) 473 kB, 03.08.2018

Code: mrl_azm161_nl

BG-test certificate (de) 140 kB, 20.05.2015

Code: z_m16p01

BG-test certificate (en) 134 kB, 20.05.2015

Code: z_m16p02

CCC certification (en) 5 MB, 26.10.2018

Code: q_371p02

CCC certification (cn) 5 MB, 26.10.2018

Code: q_371p03

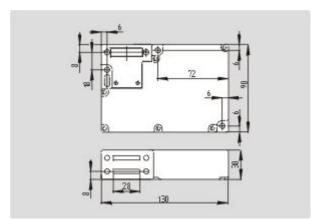
EAC certification (ru) 809 kB, 05.10.2015

Code: q_6040p17_ru

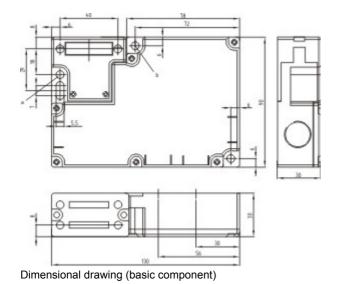
notice (de, en) 88 kB, 27.09.2007

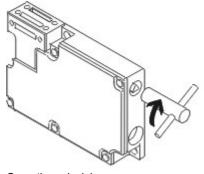
Code: s_161p01

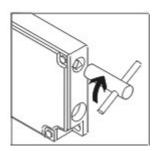
Images



Dimensional drawing (basic component)







Operating principle

System components

Actuator



101145117 - AZM 161-B1

101144416 - AZM 161-B1E



101171859 - AZM 161-B1ES

T

101175431 - AZM 161-B1F

101171125 - AZM 161-B1S







101164100 - AZM 161-B1-1747 WITH MAGNETIC LATCH



101178199 - AZM 161-B1-2024



101176642 - AZM 161-B1-2177 WITH CENTERING GUIDE



101174113 - AZM 161-B6-2177 WITH CENTERING GUIDE

• For very smal actuating radii



101170375 - AZM 161-B6S



101144420 - AZM 161-B6

• For very smal actuating radii

Door-handle system

AZM 161-STS30

- Latching handle
- · Suitable for all types of guard
- suitable in combination with EX-AZM 161
- Max. 110 °C



Accessories

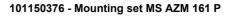


101100887 - TRIANGULAR KEY TK-M5

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



101149213 - Mounting set MS AZM 161 R/P





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 - 14:42:47h Kasbase 3.3.0.F.64I