Datasheet - AZM 161CC-12/12RKTU-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
- · Emergency exit, rear
- cable entries 4 M 16 x 1.5

Ordering details

Product type description

Article number

EAN Code

eCl@ss

AZM 161CC-12/12RKTU-024

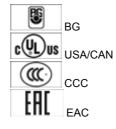
101187884

4030661357133

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) $\zeta \in$ 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 Housing coating None Weight 460

Mechanical data

Actuating play in direction of actuation 5.5 mm Design of electrical connection Cage clamps

Cable section

- Min. Cable section 1 x 0,25 - 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) Yes Manual release (Y/N) No Emergency release (Y/N) No Latching force 30 Positive break force 20 positive break travel 10

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

max. 1000 / h Actuating frequency

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)

Creep circuit element Switching principle

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

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

Rated insulation voltage Ui Thermal test current Ithe 6 A

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

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 sensorHeight of sensorLength of sensor

130 mm

90 mm

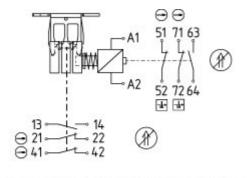
30 mm

notice

Emergency exit

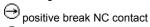
- The emergency exit is used where an intervention in an already locked hazardous area is required
- Emergency exit by pressing the red push button
- Resetting by pulling on the latched button
- Top-side (ordering suffix -TD) or rear-side (ordering suffix -TU) mounting possible
- $\bullet \ \mathsf{A} \ \mathsf{combination} \ \mathsf{of} \ \mathsf{manual} \ \mathsf{release} \ \mathsf{and} \ \mathsf{emergency} \ \mathsf{exit} \ \mathsf{in} \ \mathsf{different} \ \mathsf{mounting} \ \mathsf{directions} \ \mathsf{in} \ \mathsf{only} \ \mathsf{possible} \ \mathsf{for} \ \mathsf{the} \ \mathsf{following} \ \mathsf{variants:} \ \mathsf{-ED/-TU} \ \mathsf{and} \ \mathsf{exit} \ \mathsf{e$
- -TD/-EU

Diagram





Note Diagram



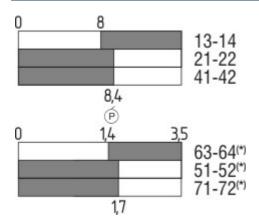




o-___o Normally-open contact

o---¹---o Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

Contact closed

Contact open

Setting range

(L) Break point

Positive opening sequence/- angle

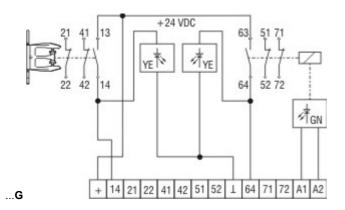
VS adjustable range of NO contact

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 $161CC-12/12RKTU-024\mathbf{G}$



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

СС

ST

(2)

12/12

12/11

11/12

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)

without Latching force 5 N

R Latching force 30 N

(4)

without Power to unlock

A Power to lock

(5)

withoutManual release lateralEDManual release cover-sideEUManual release rearTEmergency exit lateral

TD Emergency exit cover-side
TU 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 (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

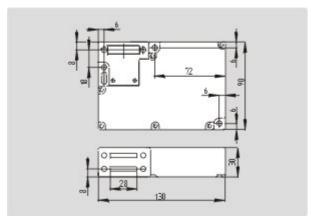
EAC certification (ru) 809 kB, 05.10.2015

Code: q_6040p17_ru

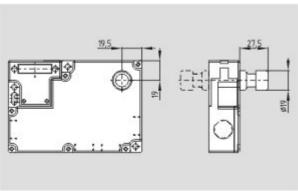
notice (de, en) 88 kB, 27.09.2007

Code: s_161p01

Images



Dimensional drawing (basic component)



Operating principle

System components

Actuator





101144416 - AZM 161-B1E

IT

101171859 - AZM 161-B1ES



101175431 - AZM 161-B1F



101171125 - AZM 161-B1S



101173089 - AZM 161-B1-2053 WITH BALL LATCH



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 - 14:42:25h Kasbase 3.3.0.F.64I