Datasheet - EX-AZM 161SK-12/12K-024-3D

Solenoid interlock / EX-AZM 161





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

- Screw connection
- 6 Contacts
- 130 mm x 114 mm x 30 mm
- · Large wiring compartment
- Clamping force 2000N
- Manual release
- Interlock with protection against incorrect locking.
- · High holding force
- Long life
- Double-insulated □
- · Ex-certified screwed cable gland
- · Ex certified
- 4 cable entries M 16 x 1.5

Ordering details

Product type description

Article number

EAN Code

eCl@ss

EX-AZM 161SK-12/12K-024-3D

101191458

4030661350639

27-27-26-03

Approval

Approval

ATEX

Classification

Standards

B10d Normally-closed contact (NC)

Mission time

notice

EN ISO 13849-1

2.000.000

20 Years

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

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

Global Properties

Permanent light

Standards

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

Number of actuating directions

Active principle

EX-AZM 161

EN 60079-0, EN 60079-31, EN 60947-5-1, BG-GS-ET-19

Yes

3

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 470

Mechanical data

Actuating play in direction of actuation 5.5

Design of electrical connection Screw connection

Cable cross-section of the cable glands

Min. Cable cross-section of the cable glands
Max. Cable cross-section of the cable glands
Ø 10

Cable section

- Min. Cable section- Max. Cable section1 x 0,751 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)NoManual release (Y/N)YesEmergency release (Y/N)NoLatching force5Positive break force20

Positive break force 20
positive break travel 10
Clamping force F 2000 N
Impact energy 1 J
Max. Actuating speed 1

Actuating frequency max. 1000 / h

Ambient conditions

Ambient temperature

Min. environmental temperature
 Max. environmental temperature
 +50
 Protection class

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 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

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

5 A

Max. fuse rating 6 A gG D-fuse

Thermal test current Ithe

EX-marking EX II 3D Ex tc IIIC T80°C Dc X

Explosion protection categories for gases

Explosion protection Zones for gases

None

Explosion protected category for dusts

3D

Explosion protection Zones for dusts

22

Dimensions

Dimensions of the sensor

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

notice

Manual release

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

Included in delivery

Actuators must be ordered separately.

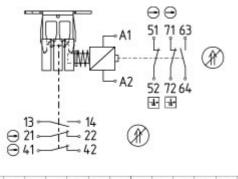
Including Ex-certified screwed cable gland and screw plug

Keywords

Keywords

Ex, EEx, ATEX, Ex AZM161, Ex AZM161, AZM 161 Ex, AZM161ex, AZM161ex, ATEX AZM161

Diagram





Note Diagram

 \bigcirc positive break NC contact

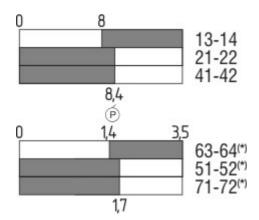
active

no active

o-___o Normally-open contact

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 code

EX-AZM 161 (1)-12/12-(2)K(3)-024-3D

(1)

SK Screw connection СС Cage clamps

(2)

without Latching force 5 N R

Latching force 30 N

(3)

without Power to unlock Α Power to lock

Documents

Operating instructions and Declaration of conformity (it) 529 kB, 17.10.2017

Code: mrl_ex-azm161_it

Operating instructions and Declaration of conformity (nl) 531 kB, 07.08.2018

Code: mrl_ex-azm161_nl

Operating instructions and Declaration of conformity (es) 535 kB, 17.10.2017

Code: mrl_ex-azm161_es

Operating instructions and Declaration of conformity (de) 507 kB, 29.09.2017

Code: mrl_ex-azm161_de

Operating instructions and Declaration of conformity (en) 519 kB, 29.09.2017

Code: mrl_ex-azm161_en

Operating instructions and Declaration of conformity (pl) 565 kB, 01.02.2018

Code: mrl_ex-azm161_pl

Operating instructions and Declaration of conformity (da) 470 kB, 26.03.2013

Code: mrl_ex-azm161_da

Operating instructions and Declaration of conformity (pt) 538 kB, 17.10.2017

Code: mrl_ex-azm161_pt

Operating instructions and Declaration of conformity (jp) 577~kB, 05.06.2013

Code: mrl_ex-azm161_jp

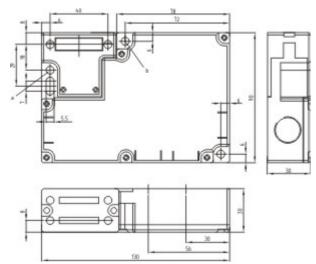
Operating instructions and Declaration of conformity (fr) 512 kB, 13.10.2017

Code: mrl_ex-azm161_fr

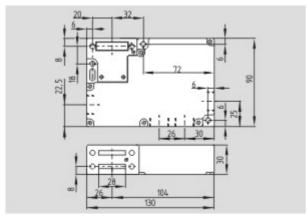
Brochure (de) 7 MB, 19.10.2016

Code: b_atep01_de

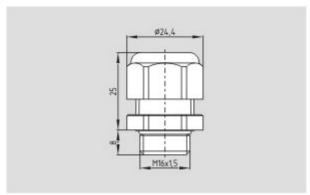
Images



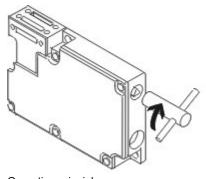
Dimensional drawing (basic component)

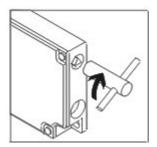


Dimensional drawing (basic component)



Dimensional drawing (miscellaneous)





Operating principle

System components

Actuator



101145117 - AZM 161-B1



101144416 - AZM 161-B1E



101175431 - AZM 161-B1F



101144420 - AZM 161-B6

• For very smal actuating radii



101178199 - AZM 161-B1-2024



101173089 - AZM 161-B1-2053 WITH BALL LATCH



101176642 - AZM 161-B1-2177 WITH CENTERING GUIDE



101174113 - AZM 161-B6-2177 WITH CENTERING GUIDE

• For very smal actuating radii



101171125 - AZM 161-B1S



101171859 - AZM 161-B1ES



101170375 - AZM 161-B6S





101149213 - Mounting set MS AZM 161 R/P



101145379 - SLOT SEALING PLUGS AZM 161

- To cover unused actuator slots
- For protection against the ingress of course dirt
- · Simple clip-in fitting



101100887 - TRIANGULAR KEY TK-M5

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

Mounting accessories



101135340 - TAMPERPROOF SCREWS M 5 x 20

- To mount the actuator
- Higher protection against tampering with interlock
- · Protects against unauthorised removal of actuator
- Various lengths available



101135339 - TAMPERPROOF SCREWS M 5 x 16

- To mount the actuator
- Higher protection against tampering with interlock
- Protects against unauthorised removal of actuator
- · Various lengths available

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 - 14:52:07h Kasbase 3.3.0.F.64l