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

101185420

4030661324982

27-27-26-03

Approval

Approval

ATEX

Classification

Standards

B_{10d} Opener (NC)

Mission time

notice

EN ISO 13849-1

2.000.000

20 Years

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

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

Global Properties

Product name

Standards

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

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 piece

electromechanical

Duty cycle Magnet 100 %

Materials

Weight

- Material of the housings Plastic, glass-fibre reinforced thermoplastic, self-extinguishing

470 g

- Material of the contacts Silver
Housing coating None

Mechanical data

Actuating play in direction of actuation 5.5 mm

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 mm

Cable section

Min. Cable section
 Max. Cable section
 1 x 0,75 mm²
 1 x 1.5 mm²

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

30 N

Latching force30 NPositive break force20 Npositive break travel10 mmClamping force Fmax2000 NImpact energy1 JMax. Actuating speed1 m/s

Actuating frequency max. 1000 / h

Ambient conditions

Ambient temperature

- Min. environmental temperature -15 °C
- Max. environmental temperature +50 °C
Protection class IP67

Electrical data

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

Switching principle Creep circuit element

Number of auxiliary contacts2 pieceNumber of safety contacts4 piecePower to unlockYesPower to lockNo

Rated control voltage Us

24 VAC/DC

Power consumption

max. 10 W

Rated impulse withstand voltage Uimp

4 kV

Reted insulation voltage Uimp

250 V

Rated insulation voltage Ui 250 V
Thermal test current Ithe 5 A

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

Max. fuse rating 6 A gG D-fuse

	3D Fx f	~ III	TOOO	D ~ V
- x 11	.3I J F X I	c m.	I AU U.	110. 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	130 mm
- Height of sensor	114 mm
- Length of sensor	30 mm

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.

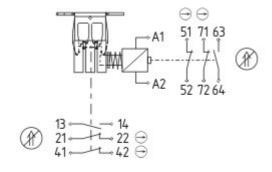
Including Ex-certified screwed cable gland and screw plug

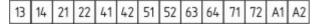
Keywords

Keywords

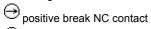
Ex, EEx, ATEX, Ex AZM161, Ex AZM161, AZM 161 Ex, AZM161ex, AZM161ex, ATEX AZM161

Diagram





Note Diagram



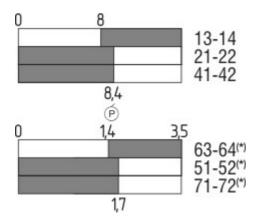




o____o Normally-open contact

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 code

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

(1)

SK Screw connection

CC 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) 465 kB, 26.03.2013

Code: mrl_ex-azm161_it

Operating instructions and Declaration of conformity (nl) 536 kB, 24.09.2012

Code: mrl_ex-azm161_nl

Operating instructions and Declaration of conformity (es) 468 kB, 05.06.2013

Code: mrl_ex-azm161_es

Operating instructions and Declaration of conformity (de) 467 kB, 26.02.2013

Code: mrl_ex-azm161_de

Operating instructions and Declaration of conformity (en) 473 kB, 26.02.2013

Code: mrl_ex-azm161_en

Operating instructions and Declaration of conformity (pl) 524 kB, 23.09.2014

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) 483 kB, 23.10.2013

Code: mrl_ex-azm161_pt

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

Code: mrl_ex-azm161_jp

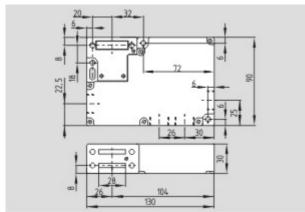
Operating instructions and Declaration of conformity (fr) 474 kB, 05.06.2013

Code: mrl_ex-azm161_fr

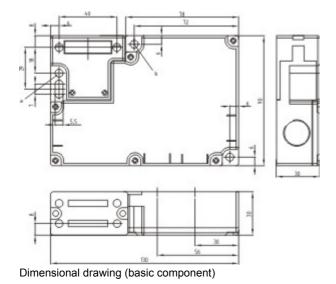
Brochure (de) 7 MB, 25.02.2011

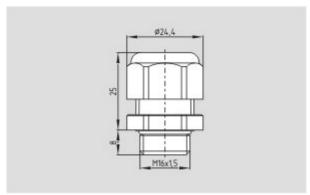
Code: b_atep01

Images

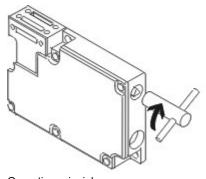


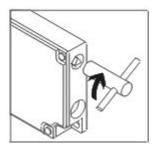
Dimensional drawing (basic component)





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 08.04.2015 - 16:37:39h Kasbase 3.1.2.F.64I