13.02.2019

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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!)

Article number EAN Code eCl@ss

Ordering details	
Product type description	EX-AZM 161SK-12/12RK-024-3D
Article number	101185420
EAN Code	4030661324982

Approval

Approval

ATEX

27-27-26-03

Classification

Standards	EN ISO 1
B10d Normally-closed contact (NC)	2.000.00
Mission time	20 Years
notice	MTTF _d =-

13849-1)0 s B_{10d} 0,1 x n_{op} n_{op} = d_{ap} x h_{op} x 3600 s/h t _{oyole}

Global Properties

Permanent light Standards Compliance with the Directives (Y/N) C ϵ 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

🕱 SCHMERSAL

- 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

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	Ø 5
- Max. Cable cross-section of the cable glands	Ø 10
Cable section	
- Min. Cable section	1 x 0,75
- 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)	No
Manual release (Y/N)	Yes
Emergency release (Y/N)	No
Latching force	30
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	-10
- Max. environmental temperature	+50
Protection class	IP67

Electrical data

ly open contact (NO), Opener (NC)
circuit element
C/DC
) W
230 V / 4 A, DC-13: 24 V / 2,5 A
D-fuse

EX marking	EX II 3D Ex tc IIIC T80°C Dc X
EX-marking	
Explosion protection categories for gases	None
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
- Height of sensor	114
- 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.

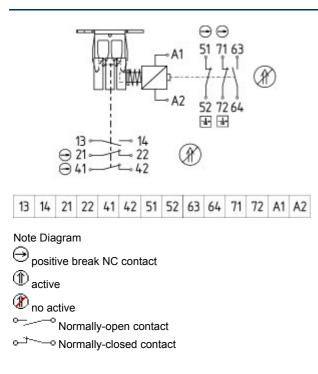
Including Ex-certified screwed cable gland and screw plug

Keywords

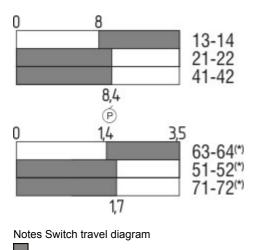
Keywords

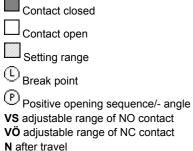
Ex, EEx, ATEX, Ex AZM161, Ex AZM161, AZM 161 Ex, AZM161ex, AZM161ex, ATEX AZM161

Diagram



Switch travel diagram





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

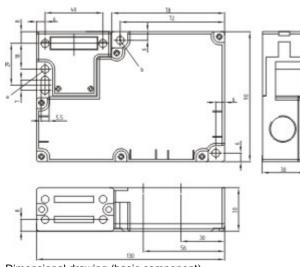
Operating instructions and Declaration of conformity (pt) 538 kB, 17.10.2017 Code: mrl_ex-azm161_pt

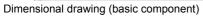
Operating instructions and Declaration of conformity (jp) 577 kB, 05.06.2013 Code: mrl_ex-azm161_jp

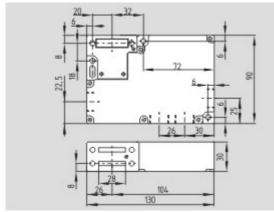
Operating instructions and Declaration of conformity (fr) 512 kB, 13.10.2017 Code: mrl_ex-azm161_fr

Brochure (de) 7 MB, 19.10.2016 Code: b_atep01_de

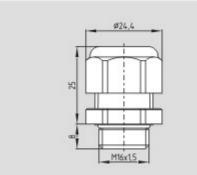
Images



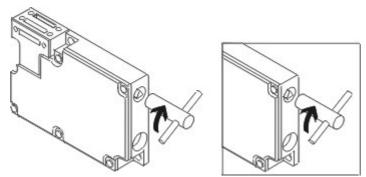




Dimensional drawing (basic component)



Dimensional drawing (miscellaneous)



Operating principle

System components

Actuator



101145117 - AZM 161-B1

101144416 - AZM 161-B1E

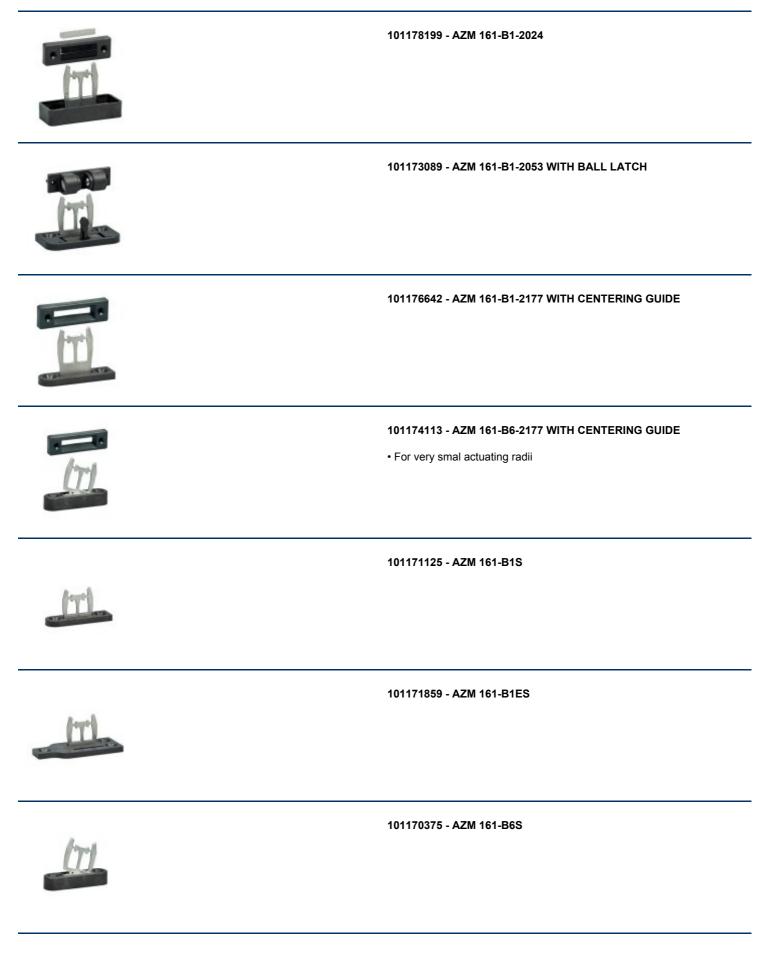


101175431 - AZM 161-B1F



101144420 - AZM 161-B6

• For very smal actuating radii



Accessories









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 - 14:52:13h Kasbase 3.3.0.F.64I