18.01.2016

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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!)

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

Product type description	EX-AZM 161SK-12/12RK-024-3D
Article number	101185420
EAN code	4030661324982
eCl@ss	27-27-26-03

Approval

۸n	nroval
AD	proval

ATEX

Classification

Standards	EN ISO 13849-1
B10d Opener (NC)	2.000.000
Mission time	20 Years
notice	$MTTF_{d} = \frac{B_{10d}}{0.1 \times n_{op}}$

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

Global Properties

Product name Standards Compliance with the Directives (Y/N) CC 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 Materials - Material of the housings - Material of the contacts Housing coating Weight Magnet 100 %

Plastic, glass-fibre reinforced thermoplastic, self-extinguishing Silver None 470 g

Mechanical data

Actuating play in direction of actuation	5.5 mm
Actuating play in direction of actuation	
Design of electrical connection	Screw connection
Cable cross-section of the cable glands	
- Min. Cable cross-section of the cable glands	Ø 5 mm
- Max. Cable cross-section of the cable glands	Ø 10 mm
Cable section	
- Min. Cable section	1 x 0,75 mm²
- Max. Cable section	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)	No
Manual release (Y/N)	Yes
Emergency release (Y/N)	No
Latching force	30 N
Positive break force	20 N
positive break travel	10 mm
Clamping force F	2000 N
Impact energy	1 J
Max. Actuating speed	1 m/s
Actuating frequency	max. 1000 / h

Ambient conditions

Ambient temperature	
- Min. environmental temperature	−10 °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 contacts	2 piece
Number of safety contacts	4 piece
Power to unlock	Yes
Power to lock	No
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
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

	EX II 3D Ex tc IIIC T80°C Dc X
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 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.

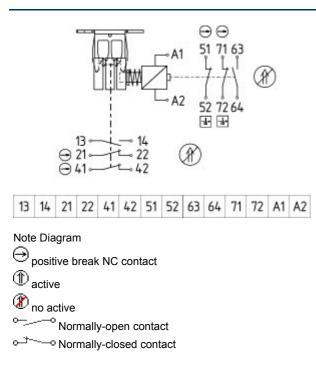
Including Ex-certified screwed cable gland and screw plug

Keywords

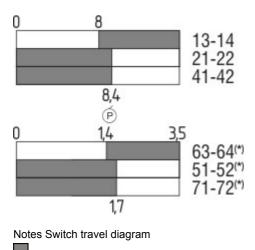
Keywords

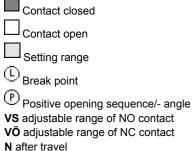
Ex, EEx, ATEX, Ex AZM161, Ex AZM161, AZM 161 Ex, AZM161ex, AZM161ex, ATEX AZM161

Diagram



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) 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) 522 kB, 16.07.2015 Code: mrl_ex-azm161_pl

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

Code: mrl_ex-azm161_da

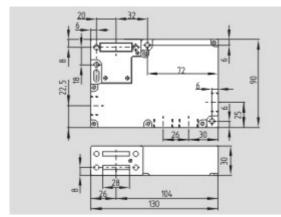
Operating instructions and Declaration of conformity (pt) 483 kB, 23.10.2013 Code: mrl_ex-azm161_pt

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

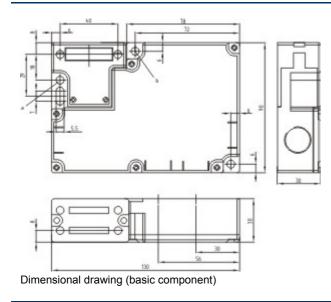
Operating instructions and Declaration of conformity (fr) 474 kB, 05.06.2013 Code: mrl_ex-azm161_fr

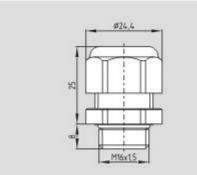
Brochure (de) 7 MB, 25.02.2011 Code: b_atep01

Images

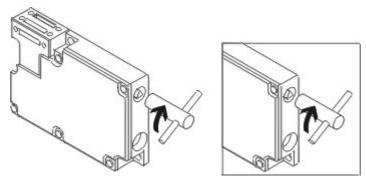


Dimensional drawing (basic component)





Dimensional drawing (miscellaneous)



Operating principle

System components

Actuator



101145117 - AZM 161-B1

101144416 - AZM 161-B1E

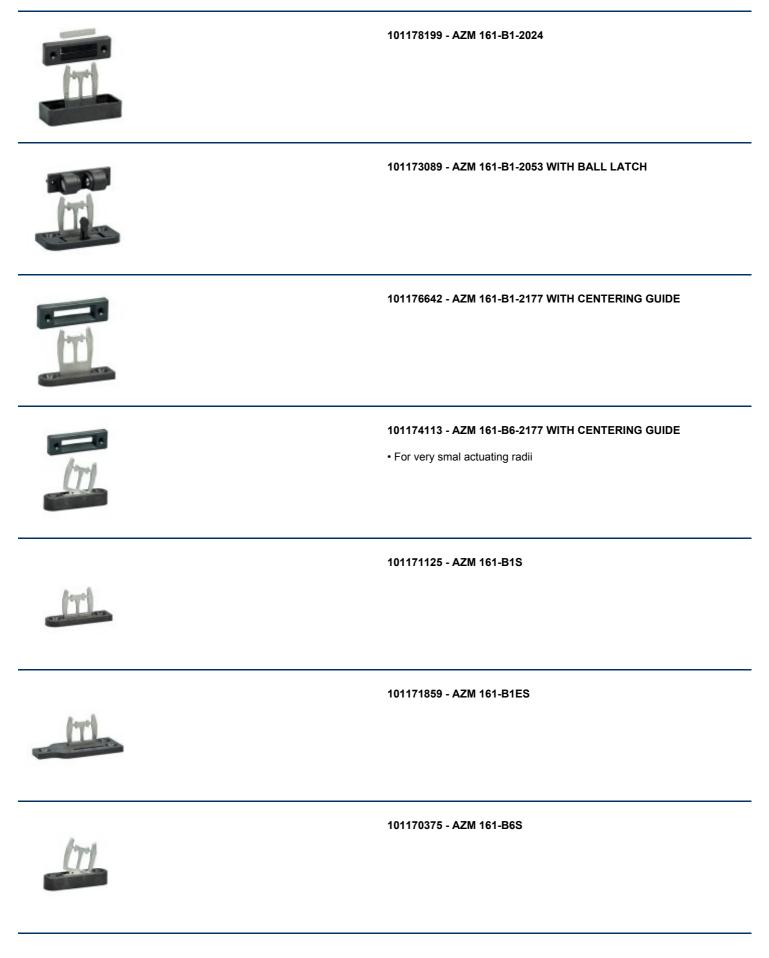


101175431 - AZM 161-B1F



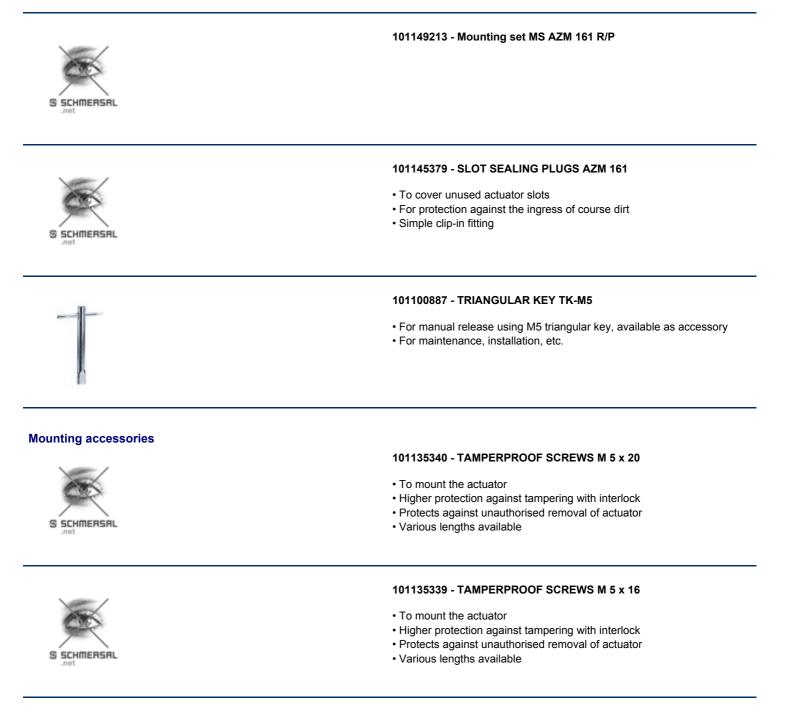
101144420 - AZM 161-B6

• For very smal actuating radii



Accessories





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 18.01.2016 - 23:05:33h Kasbase 3.2.1.F.64I