

Datasheet - AZM 161ST-11/12KA-024

Solenoid interlock / AZM 161



- 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
- Manual release
- cable entries 2 M 16 x 1.5
- 2 Connector M12, 4- and 8-poles

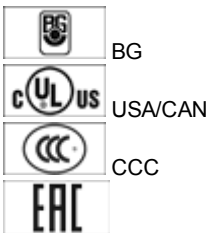
(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description	AZM 161ST-11/12KA-024
Article number	101192436
EAN code	4030661352367
eCl@ss	27-27-26-03

Approval

Approval



Classification

Standards	EN ISO 13849-1
B ^{10d} Opener (NC)	2.000.000
Mission time	20 Years
notice	$MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$ $n_{op} = \frac{d_{ap} \times h_{op} \times 3600 \text{ s/h}}{t_{cycle}}$

Global Properties

Product name	AZM 161
Standards	EN 60947-5-1, BG-GS-ET-19
Compliance with the Directives (Y/N)	Yes

Number of actuating directions	3 piece
Active principle	electromechanical
Duty cycle	Magnet 100 %
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
- Material of the contacts	Silver
Housing coating	None

Mechanical data

Actuating play in direction of actuation	5.5 mm
Design of electrical connection	Connector M12
Plug-in connectors required	2
Mechanical life	> 1.000.000 operations
Emergency unlocking device (Y/N)	No
Manual release (Y/N)	Yes
Emergency release (Y/N)	No
Latching force	5 N
Positive break force	20 N
positive break travel	10 mm
Clamping force F	2000 N
Max. Actuating speed	2 m/s
Actuating frequency	max. 1000 / h

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)
Switching principle	Creep circuit element
Number of auxiliary contacts	2 piece
Number of safety contacts	3 piece
Power to unlock	No
Power to lock	Yes
Rated control voltage U _s	24 VAC/DC
Power consumption	max. 10 W
Rated impulse withstand voltage U _{imp}	Connector 4-pole - 2.5 kV Connector 8-pole - 0,8 kV
Rated insulation voltage U _i	Connector 4-pole - 250 V Connector 8-pole - 60 V
Thermal test current I _{the}	Connector 4-pole - 4 A Connector 8-pole - 2 A
Utilisation category	Connector 4-pole - AC-15: 230 V / 4 A Connector 8-pole - DC-13: 60 V / 2 A
Required rated short-circuit current	1000 A
Max. fuse rating	6 A gG D-fuse To DIN EN 60269-1

ATEX

Explosion protection categories for gases	None
Explosion protected category for dusts	None

Miscellaneous data

Applications



sliding safety guard,



removable guard,



hinged safety guard

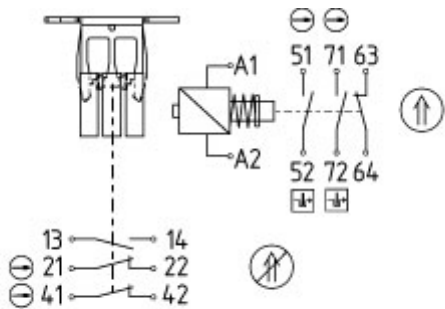
Dimensions

Dimensions of the sensor	
- Width of sensor	130 mm
- Height of sensor	90 mm
- Length of sensor	30 mm

notice

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

Diagram



13	14	21	22	41	42	51	52	63	64	71	72	A1	A2
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- Note Diagram
- ⊖ positive break NC contact
 - ⬆ active
 - ⊘ no active
 - ⬆ Normally-open contact
 - ⬆ Normally-closed contact

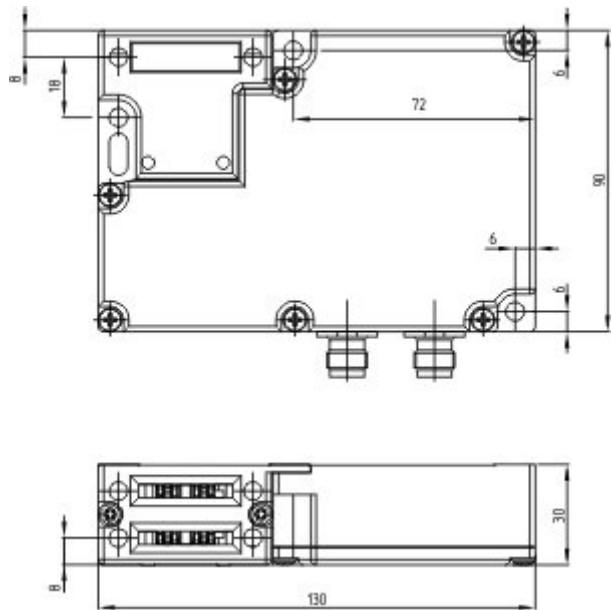
Ordering code

AZM 161 (1)-(2)(3)K(4)-(5)-(6)(7)

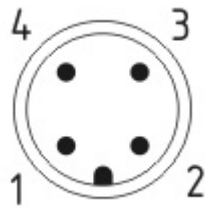
(1)	
SK	Screw connection
CC	Cage clamps
ST	male connector M12, 8- and 4-poles (Only for Us: 24 VAC/DC)
(2)	
12/12	2 Normally open contact (NO) / 4 Opener (NC)
12/11	2 Normally open contact (NO) / 3 Opener (NC) (Plug-in connection)
11/12	2 Normally open contact (NO) / 3 Opener (NC) (Plug-in connection)
(3)	
without	Latching force 5 N
R	Latching force 30 N

(4)		
without		Power to unlock
A		Power to lock
(5)		
without		Manual release lateral
ED		Manual release cover-side
EU		Manual release rear
T		Emergency 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)

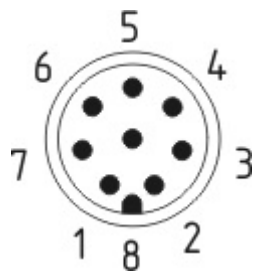
Images



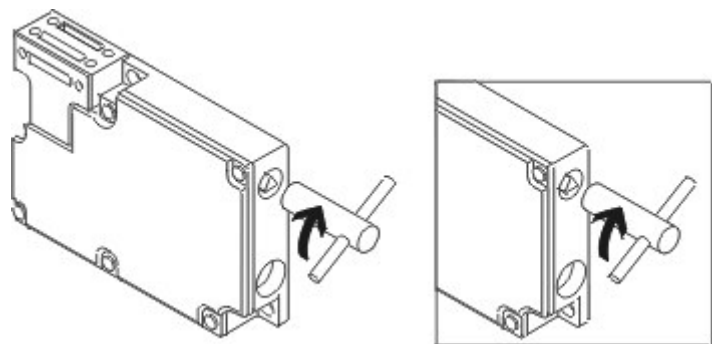
Dimensional drawing (basic component)



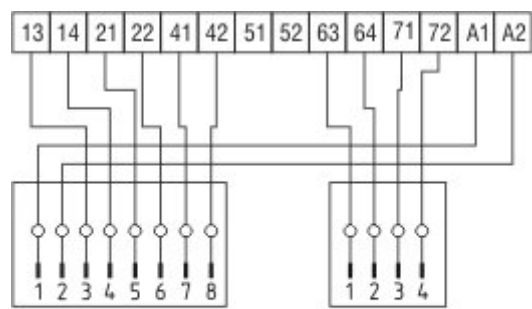
Contact arrangement



Contact arrangement



Operating principle



AZM 161 11/12

Wiring diagram

System components

Actuator

101145117 - AZM 161-B1



101144416 - AZM 161-B1E



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 small actuating radii

**101170375 - AZM 161-B6S**



101144420 - AZM 161-B6

- For very small actuating radii



Door-handle system

AZM 161-STS30

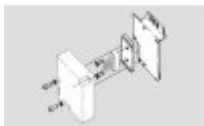
- Latching handle
- Suitable for all types of guard

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


101150376 - Mounting set MS AZM 161 P

Connector

A-K4M12

- Pre-wired cable
- 4-pole

A-K8M12

- Pre-wired cable

- 8-pole



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The data and values have been checked thoroughly. Technical modifications and errors excepted.

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