



AZM 161SK-12/12RKT-024

- Large wiring compartment
- Emergency exit, lateral
- cable entries 4 M 16 x 1.5
- Thermoplastic enclosure
- Double-insulated
- Interlock with protection against incorrect locking.
- 130 mm x 90 mm x 30 mm
- 6 Contacts
- Long life

Data

Ordering data

Product type description	AZM 161SK-12/12RKT-024
Article number (order number)	101177876
EAN (European Article Number)	4030661309491
eCl@ss number, version 12.0	27-27-26-03
eCl@ss number, version 11.0	27-27-26-03
eCl@ss number, version 9.0	27-27-26-03
ETIM number, version 7.0	EC002593
ETIM number, version 6.0	EC002593

Approvals - Standards

Certificates	IFA cULus CCC
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General data

Standards	EN ISO 13849-1 EN ISO 14119 EN IEC 60947-5-1
Coding level according to EN ISO 14119	Low
Working principle	electromechanical
Housing material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Gross weight	420 g

General data - Features

Power to unlock	Yes
Emergency exit	Yes
Number of actuating directions	3
Number of auxiliary contacts	2
Number of safety contacts	4

Safety classification

Vorschriften	EN ISO 13849-1
Performance Level, up to	c
Category	1
B _{10D} Normally-closed contact (NC)	2,000,000 Operations
Note	Electrical life on request.
B _{10D} Normally-open contact (NO)	1,000,000 Operations
Note	at 10% I _e and ohmic load
Mission time	20 Year(s)

Safety classification - Fault exclusion

Please note:	Can be used when fault exclusion for dangerous damage to the 1-channel mechanism is permissible and sufficient protection against manipulation is guaranteed.
Performance Level, up to	d
Category	3

Note	for 2-channel use and with suitable logic unit.
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Mission time	20 Year(s)
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Safety classification - Guard locking function

Performance Level, up to	e
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Note (Performance Level)	Information for the safety classification of the guard locking function is documented in the "Operating instructions" or in the "Operation and mounting" instructions.
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Mechanical data

Mechanical life, minimum	1,000,000 Operations
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Actuating play in direction of actuation	5.5 mm
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Holding force F_{Zh} in accordance with EN ISO 14119	2,000 N
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Holding force F_{max} , maximum	2,600 N
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Latching force	30 N
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Positive break travel	9.5 mm
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Positive break force per NC contact, minimum	10 N
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Positive break force, minimum	20 N
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Actuating speed, maximum	2 m/s
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Mounting	Screws
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Type of the fixing screws	3x M5
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Type of the screw head	Flat head screw
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Tightening torque of the fastening screws for the housing cover	0.6 Nm
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Note	The tightening sequence of the cover screws must be observed. This can be found in the attached drawing in the "Pictures" tab.
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Mechanical data - Connection technique

Cable entry	4 x M16 x 1,5
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Termination	Screw terminals
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Cable section, minimum	0.25 mm ²
Cable section, maximum	1.5 mm ²
Note	All indications including the conductor ferrules.
Allowed type of cable	solid single-wire solid multi-wire flexible

Mechanical data - Dimensions

Length of sensor	30 mm
Width of sensor	130 mm
Height of sensor	90 mm

Ambient conditions

Degree of protection	IP67
Ambient temperature	-30 ... +60 °C
Storage and transport temperature	-30 ... +85 °C
Note (Relative humidity)	non-condensing non-icing
Protection class	II
Permissible installation altitude above sea level, maximum	2,000 m

Ambient conditions - Insulation values

Rated insulation voltage U _i	250 VAC
Rated impulse withstand voltage U _{imp}	4 kV

Electrical data

Thermal test current	6 A
Rated control voltage	24 VAC/DC
Required rated short-circuit current	1,000 A

Electrical power consumption, maximum	10 W
Switching element	NO contact, NC contact
Switching principle	slow action, positive break NC contact
Maximale Schalthäufigkeit	1,000 /h
Material of the contacts, electrical	Silver

Electrical data - Magnet control

Magnet switch-on time	100 %
Test pulse duration, maximum	5 ms
Test pulse interval, minimum	50 ms

Electrical data - Safety contacts

Voltage, Utilisation category AC-15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	2.5 A

Electrical data - Auxiliary contacts

Voltage, Utilisation category AC-15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	2.5 A

Other data

Note (applications)	sliding safety guard removable guard hinged safety guard
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Scope of delivery

Scope of delivery

Actuator must be ordered separately.

Note

Note (Emergency exit)

For cases of danger
Actuation from within the hazardous area

Ordering code

Product type description:

AZM161 (1)-(2)(3)K(4)-(5)/(6)-(7)(8)

(1)

SK	Screw connection
CC	Cage clamps
ST	Connector plug M12

(2)

11/03	Magnet: 1 NO contact, 1 NC contact / Actuator: 3 NC contacts with connector plug
12/03	Magnet: 1 NO contact, 2 NC contact / Actuator: 3 NC contacts
12/11	Magnet: 1 NO contact, 2 NC contacts / Actuator: 1 NO contact, 1 NC contact with connector plug
11/12	Magnet: 1 NO contact, 1 NC contacts / Actuator: 1 NO contact, 2 NC contact with connector plug
12/12	Magnet: 1 NO contact, 2 NC contacts / Actuator: 1 NO contact, 2 NC contacts

(3)

without	Latching force 5 N
R	Latching force 30 N

(4)

without	Power to unlock
A	Power to lock

(5)

without	Lateral manual release
ED	Manual release on the cover side
EU	Manual release on the back side

(6)

T	Lateral emergency exit
TD	Emergency exit on the cover side
TU	Emergency exit on the back side
N	Emergency release

(7)

024	Us: 24 VAC/DC
110/230	Us: 110/230 VAC

(8)

without	without LED
G	with LED (only for Us: 24 VAC/DC)

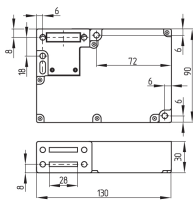
Pictures

Product picture (catalogue individual photo)



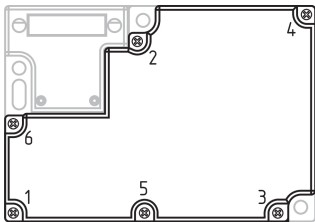
ID: kazm1f95
| 288.4 kB | .jpg | 352.778 x 257.528 mm - 1000 x 730 px - 72 dpi
| 30.4 kB | .png | 74.083 x 53.975 mm - 210 x 153 px - 72 dpi
| 42.3 kB | .jpg | 123.472 x 90.311 mm - 350 x 256 px - 72 dpi

Dimensional drawing basic component



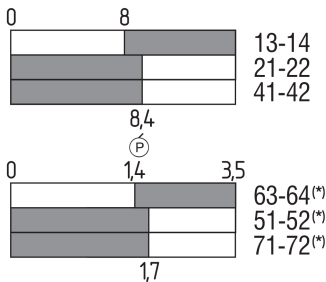
ID: 1azm1g09
| 8.1 kB | .swf |
| 3.6 kB | .png | 74.083 x 52.211 mm - 210 x 148 px - 72 dpi
| 75.8 kB | .jpg | 352.778 x 248.003 mm - 1000 x 703 px - 72 dpi

Dimensional drawing basic component



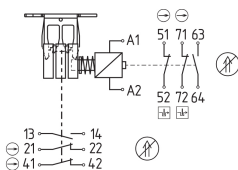
ID: 1azm1g30
| 93.0 kB | .jpg | 352.778 x 239.889 mm - 1000 x 680 px - 72 dpi

Switch travel diagram



ID: kazm1s07
| 2.9 kB | .png | 74.083 x 63.853 mm - 210 x 181 px - 72 dpi
| 102.8 kB | .jpg | 352.778 x 304.8 mm - 1000 x 864 px - 72 dpi

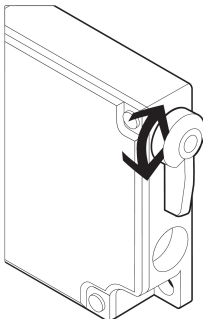
Diagram



11	12	21	22	41	42	51	52	63	64	71	72	A1	A2
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ID: kazm1k29
| 80.8 kB | .ai | 297 x 210.002 mm - 841 x 595 px - 72 dpi
| 111.9 kB | .jpg | 352.778 x 227.894 mm - 1000 x 646 px - 72 dpi
| 4.8 kB | .png | 74.083 x 47.978 mm - 210 x 136 px - 72 dpi

Operating principle



ID: kazm1a46
| 48.2 kB | .cdr |
| 195.4 kB | .jpg | 352.778 x 549.275 mm - 1000 x 1557 px - 72 dpi
| 18.4 kB | .png | 74.083 x 115.358 mm - 210 x 327 px - 72 dpi