



AZM 161SK-12/12RKAN -110/230

- Large wiring compartment
- Emergency release
- 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-12/12RKAN -110/230 |
| Article number (order number) | 101194386 |
| EAN (European Article Number) | 4030661358659 |
| 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 | cULus CCC |
|--------------|--------------|

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 | 433 g |

General data - Features

| | |
|--------------------------------|-----|
| Power to lock | Yes |
| Emergency release | Yes |
| Number of actuating directions | 3 |
| Number of auxiliary contacts | 2 |
| Number of safety contacts | 4 |

Safety classification

| | |
|---|--------------------------------------|
| Standards | 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. |
| Mission time | 20 Year(s) |

Mechanical data

| | |
|--|----------------------|
| Mechanical life, minimum | 1,000,000 Operations |
| Actuating play in direction of actuation | 5.5 mm |
| Holding force F_{Zh} in accordance with EN ISO 14119 | 2,000 N |
| Holding force F_{max} ' maximum | 2,600 N |
| Latching force | 30 N |
| Positive break travel | 10 mm |
| Positive break force per NC contact, minimum | 10 N |
| Positive break force, minimum | 20 N |
| Actuating speed, maximum | 2 m/s |
| Mounting | Screws |
| Type of the fixing screws | 3x M6 |

Mechanical data - Connection technique

| | |
|------------------------|----------------------|
| Cable entry | 4 x M16 x 1,5 |
| Termination | Screw terminals |
| Cable section, minimum | 0.25 mm ² |
| Cable section, maximum | 1.5 mm ² |

| | |
|-----------------------|---|
| Note (Cable section) | 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, minimum | -25 °C |
| Storage and transport temperature, maximum | +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 | 110 VAC 230 VAC |

| | |
|---------------------------------------|--|
| 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 |
| Switching frequency | 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 |
|---------------------|--|

Scope of delivery

| | |
|-------------------|--------------------------------------|
| Scope of delivery | Actuator must be ordered separately. |
|-------------------|--------------------------------------|

Note

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|--------------------------|--|
| Note (General) | Interlocks with the power to lock principle may only be used in special cases after a thorough evaluation of the accident risk, since the guarding device can immediately be opened on failure of the electrical power supply or when the main switch is opened. |
| Note (Emergency release) | For cases of danger Mounting only outside the guarded 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 / Actator: 3 NC contacts with connector plug |
| 12/03 | Magnet: 1 NO contact, 2 NC contact / Actator: 3 NC contacts |
| 12/11 | Magnet: 1 NO contact, 2 NC contacts / Actator: 1 NO contact, 1 NC contact with connector plug |
| 11/12 | Magnet: 1 NO contact, 1 NC contacts / Actator: 1 NO contact, 2 NC contact with connector plug |

12/12

Magnet: 1 NO contact, 2 NC contacts / Actator: 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

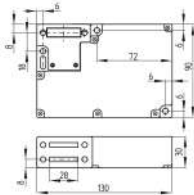
Product picture (catalogue individual photo)



ID: kazm1f03

| 256.6 kB | .tif | 75.671 x 56.885 mm - 286 x 215 px - 96 dpi
 | 698.5 kB | .jpg | 352.778 x 265.289 mm - 1000 x 752 px - 72 dpi
 | 36.6 kB | .png | 74.083 x 55.739 mm - 210 x 158 px - 72 dpi
 | 61.5 kB | .jpg | 123.472 x 92.781 mm - 350 x 263 px - 72 dpi

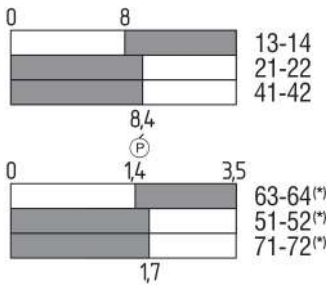
Dimensional drawing basic component



ID: lazm1g09

| 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

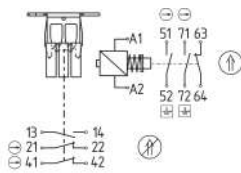
Switch travel diagram



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

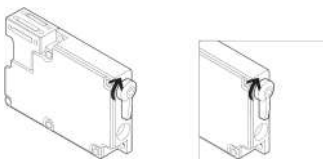


ID: kazm1k30

| 75.0 kB | .ai | 297 x 210.002 mm - 841 x 595 px - 72 dpi
 | 111.7 kB | .jpg | 352.778 x 227.542 mm - 1000 x 645 px - 72 dpi
 | 4.9 kB | .png | 74.083 x 47.978 mm - 210 x 136 px - 72 dpi

| | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 13 | 14 | 21 | 22 | 41 | 42 | 51 | 52 | 63 | 64 | 71 | 72 | A1 | A2 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

Operating principle



ID: kazm1a43

| 48.1 kB | .cdr |
 | 92.0 kB | .jpg | 352.778 x 170.744 mm - 1000 x 484 px - 72 dpi
 | 11.6 kB | .png | 74.083 x 35.983 mm - 210 x 102 px - 72 dpi