



AZM 161SK-12/12RIED-024-B6R

- 1 Cable entry M 20 x 1.5
- Screw connection
- Manual release, cover-side
- Emergency exit, rear
- right-hand model
- Compact design
- For very small actuating radii in line with or at 90° to the plane of the actuator
- Interlock with protection against incorrect locking.
- Individual coding
- Coding level "High" according to ISO 14119
- Double-insulated
- High holding force
- Long life
- 130 mm x 90 mm x 30 mm

Data

Ordering data

| | |
|-------------------------------|-----------------------------|
| Product type description | AZM 161SK-12/12RIED-024-B6R |
| Article number (order number) | 103037224 |
| EAN (European Article Number) | 4030661542249 |
| 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 | Individual coding |
| Coding level according to EN ISO 14119 | High |
| Working principle | electromechanical |
| Housing material | Plastic, glass-fibre reinforced thermoplastic, self-extinguishing |
| Material of the actuator | Stainless steel |
| Gross weight | 500 g |

General data - Features

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|--------------------------------|-----|
| Emergency exit | Yes |
| Manual 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

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|--------------------------|---|
| 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) |

Safety classification - Guard locking function

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|--------------------------|--|
| Performance Level, up to | e |
| 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. |

Mechanical data

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|--|----------------------|
| Actuating radius, minimum | 95 mm |
| 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

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|------------------------|---|
| 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

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

Ambient conditions

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|--|----------------|
| Degree of protection | IP67 |
| Ambient temperature | -30 ... +60 °C |
| Storage and transport temperature, minimum | -25 °C |
| Storage and transport temperature, maximum | +85 °C |
| Protection class | II |
| Permissible installation altitude above sea level, maximum | 2,000 m |

Ambient conditions - Insulation values

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|---|---------|
| Rated insulation voltage U_i | 250 VAC |
| Rated impulse withstand voltage U_{imp} | 4 kV |

Electrical data

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|---------------------------------------|--|
| 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 |
| Switching frequency | 1,000 /h |
| Material of the contacts, electrical | Silver |

Electrical data - Magnet control

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|------------------------------|-------|
| 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 |

Other data

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

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| Scope of delivery | Not available as spare part Slot sealing plugs The actuator is included in the scope of delivery |
|-------------------|--|

Note

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|-----------------------|---|
| Note (General) | The axis of the hinge must be 11 mm above and in a parallel plane to the top surface of the safety switch. Actuating radius adjustable to minimum 95 mm, using a hexagonal key wrench AF 2.5 mm (a) The actuator is not available separately. |
| Note (Manual release) | Top-side (ordering suffix -ED) or rear-side (ordering suffix -EU) mounting possible |

Ordering code

Product type description:
AZM 161(1)(2)(3)(4)(5)(6)(7)(8)(9)

(1)

| | |
|-----------|-----------------|
| CC | Cage clamps |
| SK | Screw terminals |
| ST | M12 connector |

(2)

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

| | |
|--------------|---|
| 12/03 | Magnet: 1 NO contact, 2 NC contact / Actator: 3 NC contacts |
| 11/12 | Magnet: 1 NO contact, 2 NC contacts / Actator: 1 NO contact, 1 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 rear side |

(6)

| | |
|-----------|----------------------------------|
| T | Lateral emergency exit |
| TD | Emergency exit on the cover side |
| TU | Emergency exit on the rear 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) |

(9)

| | |
|-----------|----------------------|
| B1 | Actuator B1 included |
|-----------|----------------------|

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|----------------|----------------------------|
| B1E | Actuator B1E included |
| B6L | Actuator B6 left included |
| B6R | Actuator B6 right included |
| B1-1747 | Actuator B1-1747 included |
| B1-2024 | Actuator B1-2024 included |
| B1-2053 | Actuator B1-2053 included |
| B1-2177 | Actuator B1-2177 included |

Pictures

Product picture (catalogue individual photo)



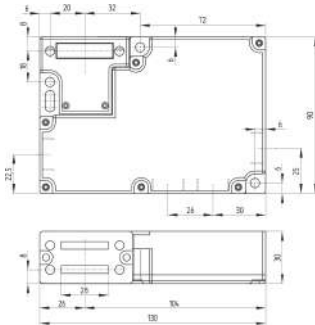
ID: kazm1f15

| 238.2 kB | .jpg | 352.778 x 251.883 mm - 1000 x 714 px - 72 dpi

| 19.4 kB | .png | 74.083 x 52.917 mm - 210 x 150 px - 72 dpi

| 27.1 kB | .jpg | 123.472 x 88.194 mm - 350 x 250 px - 72 dpi

Dimensional drawing basic component



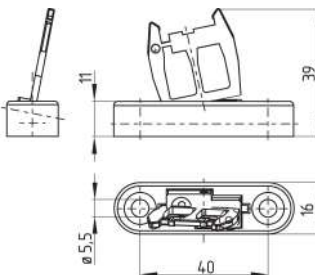
ID: kazm1g20

| 39.1 kB | .cdr |

| 4.8 kB | .png | 73.731 x 75.847 mm - 209 x 215 px - 72 dpi

| 154.6 kB | .jpg | 352.425 x 362.303 mm - 999 x 1027 px - 72 dpi

Dimensional drawing actuator

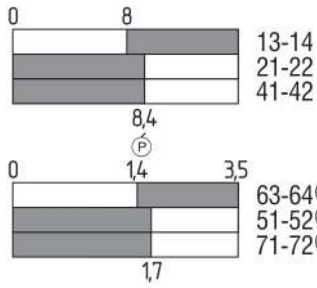


ID: 1azm1b31

| 153.2 kB | .jpg | 352.778 x 296.333 mm - 1000 x 840 px - 72 dpi

| 18.4 kB | .png | 74.083 x 62.089 mm - 210 x 176 px - 72 dpi

Switch travel diagram

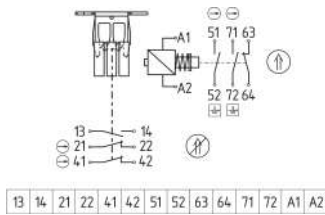


ID: kazm1s07

| 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

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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