

## AZM161SK-12/12RKA-M16-110/230V



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

### Data

#### Ordering data

|                               |                            |
|-------------------------------|----------------------------|
| Product type description      | AZM 161SK-12/12RKA-110/230 |
| Article number (order number) | 101166286                  |
| EAN (European Article Number) | 4030661213989              |
| eCl@ss number, Version 9.0    | 27-27-26-03                |

#### Certifications

|              |       |
|--------------|-------|
| Certificates | CE    |
|              | cULus |
|              | CCC   |
|              | EAC   |

#### General data

|                                      |   |
|--------------------------------------|---|
| Product name                         | AZM 161   |
| Standards                            | EN 60947-5-1<br>BG-GS-ET-19                                       |
| Active principle                     | Low<br>electromechanical  |
| Enclosure material                   | Plastic, glass-fibre reinforced thermoplastic, self-extinguishing |
| Material of the contacts, electrical | Silver  |
| Gross weight                         | 415 g   |

#### General data - Features

|               |     |
|---------------|-----|
| Power to lock | Yes |
|---------------|-----|

|                                |     |
|--------------------------------|-----|
| Manual release                 | Yes |
| Number of actuating directions | 3   |
| Number of auxiliary contacts   | 2   |
| Number of safety contacts      | 4   |

### Safety appraisal

|              |             |
|--------------|-------------|
| Standards    | ISO 13849-1 |
| Mission Time | 20 Year(s)  |

### Safety appraisal - Safety outputs

|                                   |                      |
|-----------------------------------|----------------------|
| B10d Normally-closed contact (NC) | 2,000,000 Operations |
| B10d Normally open contact (NO)   | 1,000,000 Operations |

### Mechanical data

|  |                      |
|--|----------------------|
| Mechanical life, minimum                   | 1,000,000 Operations |
| Actuating play in direction of actuation   | 5.5 mm               |
| Clamping force in accordance with ISO14119 | 2,000 N              |
| $F_{zh}$                                   |                      |
| Latching force                             | 30 N                 |
| positive break travel                      | 10 mm                |
| Positive break force, minimum              | 20 N                 |
| Actuating speed, maximum                   | 2 m/s                |

### Mechanical data - Connection technique

|                        |   |
|------------------------|---|
| Terminal Connector     | Screw terminals   |
| Cable section, minimum | 1 x 0.25 mm <sup>2</sup>  |
| Cable section, maximum | 1 x 1.5 mm <sup>2</sup>   |
| Note (Cable section)   | All indications about the cable section are including the conductor ferrules. |

### Mechanical data - Dimensions

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

### Ambient conditions

|                              |                       |
|------------------------------|-----------------------|
| Protection class             | IP 67 to IEC/EN 60529 |
| Ambient temperature, minimum | -25 °C                |
| Ambient temperature, maximum | +60 °C                |

### Ambient conditions - Insulation value

|                                 |      |
|---------------------------------|------|
| Rated impulse withstand voltage | 4 kV |
|---------------------------------|------|

## Electrical data

|  |                        |
|--|------------------------|
| Thermal test current                                 | 6 A                    |
| Rated control voltage                                | 230 VAC                |
| Required rated short-circuit current to EN 60947-5-1 | 1,000 A                |
| Electrical power consumption, maximum                | 10 W                   |
| Switching element                                    | NO contact, NC contact |
| Switching principle                                  | Creep circuit element  |
| Switching frequency                                  | 1,000 /h               |

## Other data

|                     |  |
|---------------------|--|
| Note (applications) | sliding safety guard<br>removable guard<br>hinged safety guard |
|---------------------|--|

## Scope of delivery

|                      |                                       |
|----------------------|---------------------------------------|
| Included in delivery | Actuators must be ordered separately. |
|----------------------|---------------------------------------|

## Notes

|                       |   |
|-----------------------|---|
| Note (Manual release) | For maintenance, installation, etc.<br>For manual release using M5 triangular key, available as accessory |
|-----------------------|---|

## Ordering code

Product type description:

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

(1)

|           |  |
|-----------|--|
| <b>SK</b> | Screw connection                                     |
| <b>CC</b> | Cage clamps  |
| <b>ST</b> | Connector M12, 8 and 4 pole (only for Us: 24 VAC/DC) |

(2)

|              |  |
|--------------|--|
| <b>12/12</b> | 2 NO contacts/4 NC contacts                      |
| <b>12/11</b> | 2 NO contacts / 3 NC contacts (conector version) |
| <b>11/12</b> | 2 NO contacts / 3 NC contacts (conector version) |

(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

**T** Lateral emergency exit

**TD** Emergency exit on the cover side

**TU** Emergency exit on the rear side

**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)

## Pictures

### Product picture (catalogue individual photo)



ID: kazm1f03

| 36,6 kB | .png | 74.083 x 55.739 mm - 210 x 158

Pixel - 72 dpi

| 60,1 kB | .jpg | 22.831 x 17.195 mm - 320 x 241 Pixel  
- 356 dpi

| 698,5 kB | .jpg | 352.778 x 265.289 mm - 1000 x 752  
Pixel - 72 dpi

### Product picture (catalogue individual photo)

ID: sazm1f03

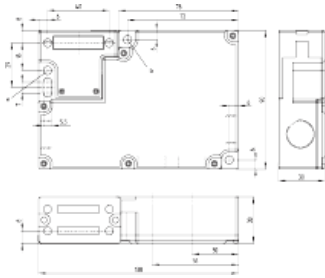


| 364,3 kB | .jpg | 352.778 x 265.289 mm - 1000 x 752 Pixel - 72 dpi

| 25,3 kB | .png | 74.083 x 55.739 mm - 210 x 158 Pixel - 72 dpi

| 38,1 kB | .jpg | 22.831 x 17.195 mm - 320 x 241 Pixel - 356 dpi

### Dimensional drawing basic component



ID: kazm1g09

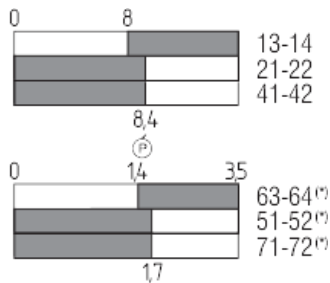
| 4,5 kB | .png | 74.083 x 62.442 mm - 210 x 177 Pixel - 72 dpi

| 139,6 kB | .jpg | 352.778 x 298.097 mm - 1000 x 845 Pixel - 72 dpi

| 34,7 kB | .jpg | 112.889 x 95.25 mm - 320 x 270 Pixel - 72 dpi

| 137,3 kB | .cdr |

### Switch travel diagram



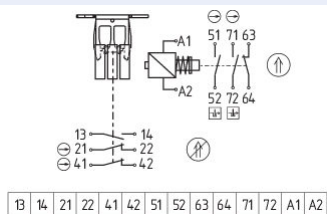
ID: kazm1s07

| 28,7 kB | .jpg | 112.889 x 97.367 mm - 320 x 276 Pixel - 72 dpi

| 17,7 kB | .cdr |

| 2,9 kB | .png | 74.083 x 63.853 mm - 210 x 181 Pixel - 72 dpi

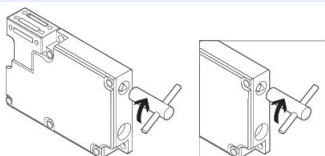
### Diagram



ID: kazm1k30

| 30,5 kB | .jpg | 112.889 x 72.672 mm - 320 x 206 Pixel - 72 dpi

### Operating principle



ID: kazm1a41

| 48,4 kB | .cdr |

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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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