

## AZM161SK-12/12RK-M16-24V



- 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-12/12RK-024
Article number (order number)	101164207
EAN (European Article Number)	4030661205144
eCl@ss number, Version 9.0	27-27-26-03

#### Approval - Standards

Certificates	cULus
	CCC
	EAC

#### General data

Product name	AZM 161
Standards	EN 60947-5-1 BG-GS-ET-19
Coding level according to ISO 14119	Low
Active principle	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 unlock	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 $F_{zh}$	2,000 N
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
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## Electrical data

Thermal test current	6 A
Rated control voltage	24 VAC/DC
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

## Electrical data - Safety contacts

Voltage, Utilisation category AC15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	2.5 A

## Electrical data - Auxiliary contacts

Voltage, Utilisation category AC15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	2.5 A

## Other data

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

Included in delivery	Actuators must be ordered separately.
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## Notes

Note (Manual release)	For maintenance, installation, etc. For manual release using M5 triangular key, available as accessory
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## Ordering code

Product type description:

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

(1)

**SK** Screw connection

**CC** Cage clamps

**ST** Connector M12, 8 and 4 pole (only for Us: 24 VAC/DC)

(2)

**11/03** 1 NO contacts / 4 NC contacts (conector version)

**12/03** 1 NO contacts/5 NC contact

**12/11** 2 NO contacts / 3 NC contacts (conector version)

**11/12** 2 NO contacts / 3 NC contacts (conector version)

**12/12** 2 NO contacts/4 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

**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

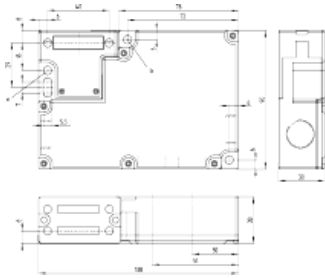
| 36,6 kB | .png | 74.083 x 55.739 mm - 210 x 158

Pixel - 72 dpi

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

Pixel - 72 dpi

## Dimensional drawing basic component



ID: kazm1g09

| 137,3 kB | .cdr |

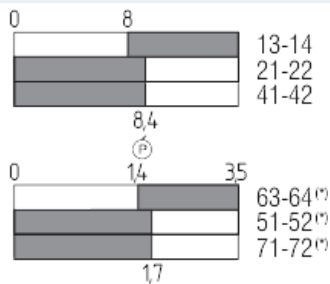
| 139,6 kB | .jpg | 352.778 x 298.097 mm - 1000 x 845

Pixel - 72 dpi

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

- 72 dpi

## Switch travel diagram



ID: kazm1s07

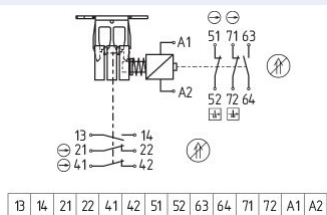
| 102,8 kB | .jpg | 352.778 x 304.8 mm - 1000 x 864

Pixel - 72 dpi

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

- 72 dpi

## Diagram



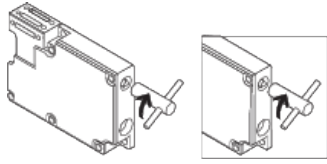
ID: kazm1k29

| 111,9 kB | .jpg | 352.778 x 227.894 mm - 1000 x 646

Pixel - 72 dpi

## Operating principle

ID: kazm1a41



| 13,0 kB | .png | 74.083 x 35.983 mm - 210 x 102

Pixel - 72 dpi

| 105,3 kB | .jpg | 352.778 x 170.744 mm - 1000 x 484

Pixel - 72 dpi

| 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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