



## AZM 161ST-12/11RKEU-024

- Large wiring compartment
- Manual release
- 2 cable entries M 16 x 1.5
- 2 Connector M12, 4- and 8-poles
- 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 161ST-12/11RKEU-024
Article number (order number)	101217084
EAN (European Article Number)	4030661410579
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
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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	450 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	3

### Safety classification

Standards	EN ISO 13849-1
Performance Level, up to	c
Category	1
B <sub>10D</sub> Normally-closed contact (NC)	2,000,000 Operations
Note	Electrical life on request.
B <sub>10D</sub> Normally-open contact (NO)	1,000,000 Operations
Note	at 10% I <sub>e</sub> 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)

### Safety classification - Guard locking function

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

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	10 N
Actuating speed, maximum	2 m/s
Mounting	Screws
Type of the fixing screws	3x M6

### Mechanical data - Connection technique

Termination	Connector plug M12, 4-pole, (A-coding) Connector plug M12, 8-pole, (A-coding)
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### Mechanical data - Dimensions

Length of sensor	30 mm
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Width of sensor 130 mm

Height of sensor 90 mm

### Ambient conditions

Degree of protection IP67

Ambient temperature -25 ... +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  
Connector, 4 poles - 250 V  
Connector, 8 poles - 60 V

Rated impulse withstand voltage  $U_{imp}$  0.8 kV

Rated impulse withstand voltage, connector 4-pole 2.5 kV

Rated impulse withstand voltage, connector 8-pole 0.8 kV

### Electrical data

Thermal test current 2 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

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	60 VDC
Current, Utilisation category DC- 13	2 A

### Electrical data - Auxiliary contacts

Voltage, Utilisation category AC- 15	230 VAC
Current, Utilisation category AC- 15	4 A
Voltage, Utilisation category DC- 13	60 VDC
Current, Utilisation category DC- 13	2 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 (Manual release)                      For maintenance, installation, etc.  
For manual release using M5 triangular key, available as accessory  
Top-side (ordering suffix -ED) or rear-side (ordering suffix -EU) mounting possible

Note (Emergency exit, Manual release)                      A combination of manual release and emergency exit in different mounting directions is only possible for the following variants: -ED/-TU and -TD/-EU

## Ordering code

Product type description:  
AZM161 (1)-(2)(3)K(4)-(5)/(6)-(7)(8)

(1)

<b>SK</b>	Screw connection
<b>CC</b>	Cage clamps
<b>ST</b>	Connector plug M12

(2)

<b>11/03</b>	Magnet: 1 NO contact, 1 NC contact / Actator: 3 NC contacts with connector plug
<b>12/03</b>	Magnet: 1 NO contact, 2 NC contact / Actator: 3 NC contacts
<b>12/11</b>	Magnet: 1 NO contact, 2 NC contacts / Actator: 1 NO contact, 1 NC contact with connector plug
<b>11/12</b>	Magnet: 1 NO contact, 1 NC contacts / Actator: 1 NO contact, 2 NC contact with connector plug
<b>12/12</b>	Magnet: 1 NO contact, 2 NC contacts / Actator: 1 NO contact, 2 NC contacts

(3)

<b>without</b>	Latching force 5 N
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<b>R</b>	Latching force 30 N
(4)	
<b>without</b>	Power to unlock
<b>A</b>	Power to lock
(5)	
<b>without</b>	Lateral manual release
<b>ED</b>	Manual release on the cover side
<b>EU</b>	Manual release on the back side
(6)	
<b>T</b>	Lateral emergency exit
<b>TD</b>	Emergency exit on the cover side
<b>TU</b>	Emergency exit on the back side
<b>N</b>	Emergency release
(7)	
<b>024</b>	Us: 24 VAC/DC
<b>110/230</b>	Us: 110/230 VAC
(8)	
<b>without</b>	without LED
<b>G</b>	with LED (only for Us: 24 VAC/DC)

## Pictures

### Product picture (catalogue individual photo)



ID: kazm1f23

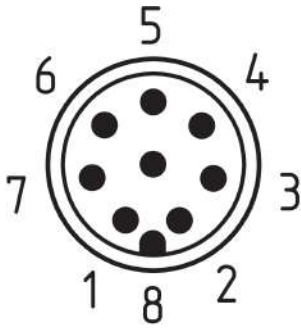
| 412.8 kB | .jpg | 352.778 x 291.394 mm - 1000 x 826 px - 72 dpi

| 36.0 kB | .png | 74.083 x 61.031 mm - 210 x 173 px - 72 dpi

| 58.2 kB | .jpg | 123.472 x 101.953 mm - 350 x 289 px - 72 dpi





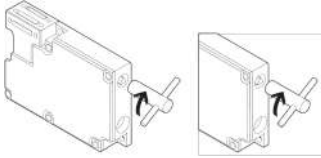


ID: km23-k8b

| 5.3 kB | .png | 73.731 x 79.728 mm - 209 x 226 px - 72 dpi

| 139.8 kB | .jpg | 352.778 x 380.647 mm - 1000 x 1079 px - 72 dpi

## Operating principle

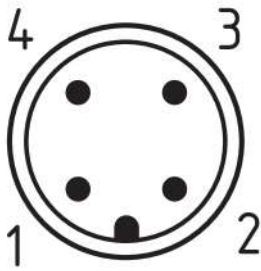


ID: kazm1a41

| 105.3 kB | .jpg | 352.778 x 170.744 mm - 1000 x 484 px - 72 dpi

| 13.0 kB | .png | 74.083 x 35.983 mm - 210 x 102 px - 72 dpi

## Contact arrangement



ID: km12-k4c

| 4.2 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi

| 113.3 kB | .jpg | 352.778 x 352.778 mm - 1000 x 1000 px - 72 dpi

Schmersal India Pvt. Ltd., Plot No - G-7/1, Ranjangaon MIDC, Tal. - Shirur, Dist.- Pune 412 220

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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