



AZM 161CC-12/03RK-024G

- Large wiring compartment
- Manual release
- with LED
- 2 cable entries 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 161CC-12/03RK-024G
Article number (order number)	101212247
EAN (European Article Number)	4030661398235

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
Integral system diagnostics, status	Yes
Number of actuating directions	3
Number of auxiliary contacts	1
Number of safety contacts	5

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)

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

Mechanical data - Connection technique

Cable entry	2 x M16 x 1.5
Termination	Cage clamps
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	-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
Rated impulse withstand voltage U_{imp}	4 kV

Electrical data

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, Silver
electrical

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- 230 VAC
15
Current, Utilisation category AC- 4 A
15
Voltage, Utilisation category DC- 24 VDC
13
Current, Utilisation category DC- 2.5 A
13

Electrical data - Auxiliary contacts

Voltage, Utilisation category AC- 230 VAC
15
Current, Utilisation category AC- 4 A
15
Voltage, Utilisation category DC- 24 VDC
13
Current, Utilisation category DC- 2.5 A
13

Other data

Note (applications) sliding safety guard
removable guard
hinged safety guard

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

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

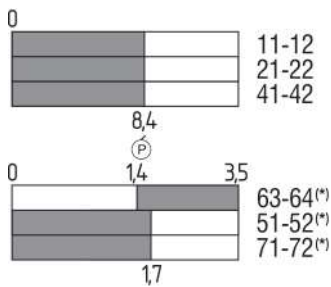
(3)

without	Latching force 5 N
R	Latching force 30 N

(4)

without	Power to unlock
A	Power to lock

Switch travel diagram

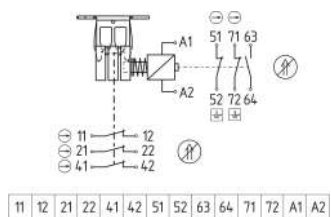


ID: kazm1s18

| 2.1 kB | .png | 74.083 x 67.028 mm - 210 x 190 px - 72 dpi

| 103.7 kB | .jpg | 352.778 x 318.558 mm - 1000 x 903 px - 72 dpi

Diagram



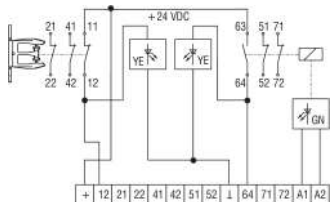
ID: kazm1k97

| 81.5 kB | .ai | 297 x 210.002 mm - 841 x 595 px - 72 dpi

| 4.8 kB | .png | 74.083 x 47.978 mm - 210 x 136 px - 72 dpi

| 114.2 kB | .jpg | 352.778 x 227.542 mm - 1000 x 645 px - 72 dpi

Wiring example

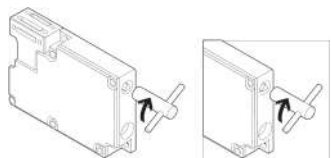


ID: kazm1k103

| 36.9 kB | .cdr |

| 108.8 kB | .jpg | 352.778 x 219.075 mm - 1000 x 621 px - 72 dpi

Operating principle

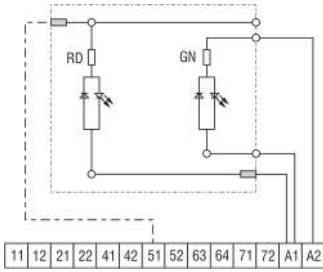


ID: kazm1a41

| 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

Wiring example



ID: kazm1k101

| 23.3 kB | .cdr |

| 114.4 kB | .jpg | 352.778 x 291.042 mm - 1000 x 825 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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