



AZM 170SK-02/01ZRKA 24VAC/DC

- 1 Cable entry M 20 x 1.5
- Cut clamp termination
- Thermoplastic enclosure
- Double-insulated
- Compact design
- Interlock with protection against incorrect locking.
- Long life
- High holding force

Data

Ordering data

| | |
|-------------------------------|------------------------------|
| Product type description | AZM 170SK-02/01ZRKA 24VAC/DC |
| Article number (order number) | 101182754 |
| EAN (European Article Number) | 4030661318165 |
| 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 | BG cULus CCC |
|--------------|--------------------|

General data

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|--|---|
| 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 | 344 g |

General data - Features

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|--------------------------------|-----|
| Power to lock | Yes |
| Number of actuating directions | 2 |
| Number of safety contacts | 3 |

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) |

Mechanical data

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|--|----------------------|
| Mechanical life, minimum | 1,000,000 Operations |
| Holding force F_{Zh} in accordance with EN ISO 14119 | 1,000 N |
| Holding force F_{max} , maximum | 1,300 N |
| Latching force | 30 N |
| Positive break travel | 11 mm |
| Positive break force per NC contact, minimum | 8.5 N |
| Positive break force, minimum | 8.5 N |
| Actuating speed, maximum | 2 m/s |
| Mounting | Screws |
| Type of the fixing screws | 2x M5 |
| Tightening torque of the fastening screws for the housing cover, minimum | 0.7 Nm |
| Tightening torque of the fastening screws for the housing cover, maximum | 1 Nm |
| Note | Torx T10 |

Mechanical data - Connection technique

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|------------------------|---|
| 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 flexible |

Mechanical data - Dimensions

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

| | |
|------------------|----------|
| Height of sensor | 100.5 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 |
| 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 |
| Overvoltage category | III |
| Degree of pollution | 3 |

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 | 12 W |
| Switching element | Opener (NC) |
| Note (Switching element) | Change-over contact with double break, type Zb or 2 NC contacts, with galvanically separated contact bridges |
| 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 | 4 A |

Other data

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

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|-------------------|--------------------------------------|
| Scope of delivery | Actuator must be ordered separately. |
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Ordering code

Product type description:
AZM 170(1)-(2)Z(3)K(4)-(5)-(6)-(7)-(8)

(1)

| | |
|----------------|------------------|
| without | Cut clamps |
| SK | Screw connection |

(2)

| | |
|-----------|----------------------------|
| 11 | 1 NO contacts/1 NC contact |
| 02 | 2 NC contact |

| | | |
|-----------------|--|--|
| (3) | | |
| without | | Latching force 5 N |
| R | | Latching force 30 N |
| (4) | | |
| without | | Power to unlock |
| A | | Power to lock |
| (5) | | |
| without | | Cable entry M20 |
| ST | | 2 connector, M12, 4-pin |
| ST-2431 | | As well as ST; individual solenoid monitoring |
| ST8 | | Connector M12 8-pole |
| (6) | | |
| 24VAC/DC | | Us 24 VAC/DC |
| 110VAC | | Us 110 VAC |
| 230VAC | | Us 230 VAC |
| (7) | | |
| 1637 | | Gold-plated contacts |
| (8) | | |
| without | | Manual release |
| 2197 | | Manual release from side (Standard in case of conector and power to unlock versions) |

Pictures

Product picture (catalogue individual photo)

