



AZM 170SK-11/11ZRK-2197 24VAC/DC

- 1 Cable entry M 20 x 1.5
- Manual release from side
- 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-11/11ZRK-2197 24VAC/DC |
| Article number (order number) | 101179710 |
| EAN (European Article Number) | 4030661312798 |
| 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

| | |
|--|---|
| 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 | 315 g |

General data - Features

| | |
|--------------------------------|-----|
| Power to unlock | Yes |
| Manual release | Yes |
| Number of actuating directions | 2 |
| Number of auxiliary contacts | 2 |
| Number of safety contacts | 2 |

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 - Safety outputs

| | |
|--|--------------------------------------|
| Note (B _{10D} Normally open contact (NO)) | at 10% I _e and ohmic load |
|--|--------------------------------------|

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) |

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

| | |
|------------------------|----------------------|
| 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 solid multi-wire flexible |

Mechanical data - Dimensions

| | |
|------------------|----------|
| Length of sensor | 30 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

| | |
|--------------------------------------|-----------|
| 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 | NO contact, NC contact |
| 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

| | |
|------------------------------|-------|
| 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 |

Electrical data - Auxiliary 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

| | |
|---------------------|--|
| 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) right
For manual release using M5 triangular key, available as accessory
Additional manual release on side

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)

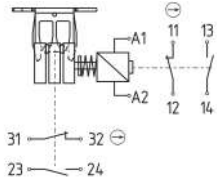
| | |
|----------------|---------------------|
| without | Latching force 5 N |
| R | Latching force 30 N |

(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 |

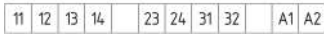


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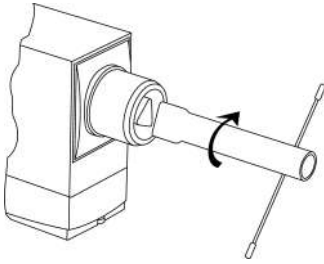
| 32.0 kB | .cdr |

| 95.1 kB | .jpg | 352.778 x 268.464 mm - 1000 x 761 px - 72 dpi

| 4.8 kB | .png | 74.083 x 56.444 mm - 210 x 160 px - 72 dpi



Operating principle



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| 113.1 kB | .jpg | 352.778 x 280.811 mm - 1000 x 796 px - 72 dpi

| 4.6 kB | .png | 74.083 x 58.914 mm - 210 x 167 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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