

## AZM 170SK-12/00ZK-2197 24 VAC/DC



- Long life
- Compact design
- Double-insulated
- High holding force
- 90 mm x 84 mm x 30 mm
- Cut clamp termination
- Thermoplastic enclosure
- 1 Cable entry M 20 x 1.5
- Manual release from side
- Interlock with protection against incorrect locking.

### Data

#### Ordering data

|                               |                                  |
|-------------------------------|----------------------------------|
|                               | AZM 170SK-12/00ZK-2197 24 VAC/DC |
|                               | 101183231                        |
| EAN (European Article Number) | 4030661318974                    |
| eCl@ss number, Version 9.0    | 27-27-26-03                      |

#### Approval - Standards

cULus  
CCC  
EAC

#### General data

|                                      |                                                                   |
|--------------------------------------|-------------------------------------------------------------------|
|                                      | AZM 170                                                           |
|                                      | 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                         | 320 g                                                             |

## General data - Features

|                                |     |
|--------------------------------|-----|
| Power to unlock                | Yes |
| Manual release                 | Yes |
| Number of actuating directions | 2   |
| Number of auxiliary contacts   | 1   |
| Number of safety contacts      | 2   |

## Safety appraisal

|              |             |
|--------------|-------------|
|              | ISO 13849-1 |
| Mission Time | 20 Year(s)  |

## Safety appraisal - Safety outputs

|                                   |                      |
|-----------------------------------|----------------------|
| B10d Normally-closed contact (NC) | 2,000,000 Operations |
|-----------------------------------|----------------------|

## Mechanical data

|                                                     |                      |
|-----------------------------------------------------|----------------------|
| Mechanical life, minimum                            | 1,000,000 Operations |
| Clamping force in accordance with ISO14119 $F_{zh}$ | 1,000 N              |
| Latching force                                      | 5 N                  |
| positive break travel                               | 11 mm                |
| Positive break force, minimum                       | 8.5 N                |
| Actuating speed, maximum                            | 2 m/s                |

## Mechanical data - Connection technique

|                        |                                    |
|------------------------|------------------------------------|
| Terminal Connector     | Screw terminals                    |
|                        | 1 x 0.25 mm <sup>2</sup>           |
| Cable section, maximum | 1 x 1.5 mm <sup>2</sup> , flexible |

## Mechanical data - Dimensions

|                  |          |
|------------------|----------|
| Height of sensor | 100.5 mm |
| Length of sensor | 30 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 |
|---------------------------------|------|

## 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                                                                                       |
| Note (Switching element)                             | Change-over contact with double break, type Zb or 2 NC contacts, with galvanically separated contact bridges |
| Switching principle                                  | Creep circuit element                                                                                        |
| Switching frequency                                  | 1,000 /h                                                                                                     |

## Electrical data - Safety contacts

|                                    |        |
|------------------------------------|--------|
| Voltage, Utilisation category DC13 | 24 VDC |
| Current, Utilisation category DC13 | 4 A    |

## Electrical data - Auxiliary contacts

|                                    |        |
|------------------------------------|--------|
| Voltage, Utilisation category DC13 | 24 VDC |
| Current, Utilisation category DC13 | 4 A    |

## Other data

|                     |                                                                |
|---------------------|----------------------------------------------------------------|
| Note (applications) | sliding safety guard<br>removable guard<br>hinged safety guard |
|---------------------|----------------------------------------------------------------|

## Scope of delivery

|                      |                                       |
|----------------------|---------------------------------------|
| Included in delivery | Actuators must be ordered separately. |
|----------------------|---------------------------------------|

## Notes

|                       |                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------|
| Note (General)        | Individual coding available on request<br>right                                                         |
| Note (Manual release) | For manual release using M5 triangular key, available as accessory<br>Additional manual release on side |

## Ordering code

Product type description:

AZM 170(1)-(2)Z(3)K(4)-(5)-(6)-(7)

(1)

**without** IDC method of termination

**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

**I** Individual coding

(4)

**without** Power to unlock

**A** Power to lock

(5)

**without** cable gland

**ST** M12 x 1 connector

**ST-2431** Connector M12 x 1, individual solenoid monitoring

(6)

**24VAC/DC** Us 24 VAC/DC

**110VAC** Us 110 VAC

**230VAC** Us 230 VAC

(7)

**without** Manual release

**2197** Manual release from side (Power to unlock)

**1637** Gold-plated contacts

(1)

**11/11** 1 NO contact, 1 NC contact / 1 NO contact 1, NC contact

**11/02** 1 NO contact, 1 NC contact / 2 NC contacts

**12/00** 1 NO contact, 2 NC contacts / -

**12/11** 1 NO contact, 2 NC contact / 1 NO contact 1, NC contact

**12/02** 1 NO contact, 2 NC contact / 2 NC contacts

**02/01** 2 NC contacts / 1 NC contact

**02/10** 2 NC contacts, - / 1 NO contact

(2)

**without** Latching force 5 N

**R** Latching force 30 N

(3)

**without** Power to unlock

**A** Power to lock

### 1637 Gold-plated contacts

(5)

**2197** Manual release for Power to unlock

## Pictures

## Photo/Product/Catalogue

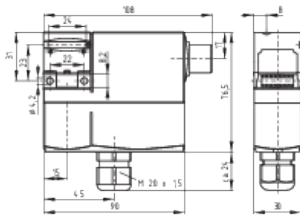


ID: kazm1f10

| 491,5 kB | .jpg | 243.769 x 229.658 mm - 691 x 651 Pixel - 72 dpi

| 50,6 kB | .png | 74.083 x 69.85 mm - 210 x 198 Pixel - 72 dpi

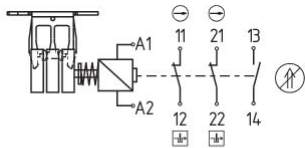
### Dimension/Product/Basic



ID: 1azm1g07

| 10,1 kB | .png | 74.083 x 51.506 mm - 210 x 146  
Pixel - 72 dpi  
| 126,8 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695  
Pixel - 72 dpi  
| 44,4 kB | .cdr |

### Graphic/Product/Contact

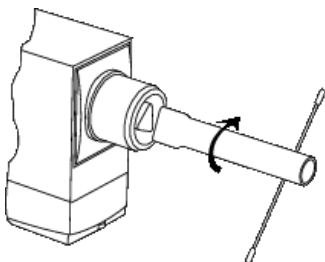


ID: kazm1k83

| 93,1 kB | .jpg | 352.778 x 255.764 mm - 1000 x 725  
Pixel - 72 dpi

|    |    |    |    |    |    |  |    |    |
|----|----|----|----|----|----|--|----|----|
| 11 | 12 | 21 | 22 | 13 | 14 |  | A1 | A2 |
|----|----|----|----|----|----|--|----|----|

### Illustration/Product/Function



ID: kazm1a71

| 4,6 kB | .png | 74.083 x 58.914 mm - 210 x 167 Pixel  
- 72 dpi  
| 113,1 kB | .jpg | 352.778 x 280.811 mm - 1000 x 796  
Pixel - 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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+010001pm31