



## EX-AZM 170-11ZRK 24VAC/DC-3G/D

- Manual release
- Ex-Zone 2 and 22
- High holding force
- 90 mm x 84 mm x 30 mm
- Thermoplastic enclosure
- 1 Cable entry M 20 x 1.5
- IDC method of termination
- Interlock with protection against incorrect locking.

### Data

#### Ordering data

|                               |                                |
|-------------------------------|--------------------------------|
|                               | EX-AZM 170-11ZRK 24VAC/DC-3G/D |
|                               | 101185410                      |
| EAN (European Article Number) | 4030661324937                  |
| eCl@ss number, Version 9.0    | 27-27-26-03                    |

#### Explosion protection

BG-GS-ET-19  
 EN 60079-0  
 EN 60079-15  
 EN 60079-31  
 EN 60947-5-1  
 22  
 2  
 3D  
 3G  
 ⚠ II 3G Ex nC IIB T5 Gc X  
 ⚠ II 3D Ex tc IIIC T80°C Dc X

|                          |                    |
|--------------------------|--------------------|
| Manufacturer declaration | ATEX Zone 2 and 22 |
|--------------------------|--------------------|

#### General data

|                                      |                                                                   |
|--------------------------------------|-------------------------------------------------------------------|
|                                      | EX-AZM 170                                                        |
| Enclosure material                   | Plastic, glass-fibre reinforced thermoplastic, self-extinguishing |
| Material of the contacts, electrical | Silver                                                            |

|              |         |
|--------------|---------|
| Gross weight | 260.5 g |
|--------------|---------|

#### General data - Features

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

#### 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 |
| Impact energy, maximum        | 1 J                  |
| Clamping force                | 1,000 N              |
| Latching force                | 30 N                 |
| positive break travel         | 11 mm                |
| Positive break force, minimum | 8.5 N                |
| Actuating speed, maximum      | 1 m/s                |

#### Mechanical data - Connection technique

|                                                  |                                    |
|--------------------------------------------------|------------------------------------|
| Terminal Connector                               | IDC method of termination          |
| Cable cross-section of the cable glands, minimum | 6.5 mm                             |
| Cable cross-section of the cable glands, maximum | 12 mm                              |
| Cable section, minimum                           | 2 x 1.0 mm <sup>2</sup> , flexible |
| Cable section, maximum                           | 1 x 1 mm <sup>2</sup> , flexible   |

#### Mechanical data - Dimensions

|                  |       |
|------------------|-------|
| Height of sensor | 84 mm |
| Length of sensor | 30 mm |
| Width of sensor  | 90 mm |

#### Ambient conditions

|                              |                       |
|------------------------------|-----------------------|
| Protection class             | IP 67 to IEC/EN 60529 |
| Ambient temperature, minimum | -15 °C                |
| Ambient temperature, maximum | +45 °C                |

## Ambient conditions - Insulation value

Rated impulse withstand voltage 4 kV

## Electrical data

|                                       |                        |
|---------------------------------------|------------------------|
| Thermal test current                  | 2 A                    |
| Rated control voltage                 | 24 VAC                 |
| Rated control voltage                 | 24 VDC                 |
| Utilisation category AC-15            | 230 VAC                |
| Utilisation category AC-15            | 2 A                    |
| Utilisation category DC-13            | 24 VDC                 |
| Utilisation category DC-13            | 2 A                    |
| Electrical power consumption, maximum | 10 W                   |
| Switching element                     | NO contact, NC contact |
| Switching principle                   | Creep circuit element  |

## Scope of delivery

|                      |                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------|
| Included in delivery | Actuators must be ordered separately.<br>Including Ex-certified screwed cable gland and screw plug |
|----------------------|----------------------------------------------------------------------------------------------------|

## Notes

|                       |                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Note (General)        | This type termination (IDC) method enables simple connection of flexible conductors without the need for the use of conductor ferrules |
| Note (Manual release) | bottom<br>For manual release using M5 triangular key, available as accessory                                                           |

## Ordering code

Product type description:

EX-AZM 170-(1)Z(2)K(3)-24VAC/DC-(4)-3G/D

(1)

**11** 1 NO contacts/1 NC contact

**02** 2 NC contact

(2)

**without** Latching force 5 N

**R** Latching force 30 N

(3)

**without** Power to unlock

**A** Power to lock

(4)

**without** Manual release

**1637** Gold-plated contacts

## Pictures

### Photo/Product/Catalogue



ID: kazm1f04

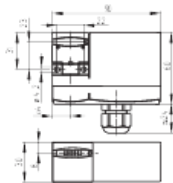
| 48,7 kB | .png | 74.083 x 74.789 mm - 210 x 212

Pixel - 72 dpi

| 620,3 kB | .jpg | 352.425 x 356.658 mm - 999 x 1011

Pixel - 72 dpi

### Dimension/Product/Basic



ID: lazmlg03

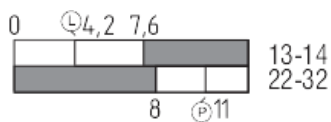
| 3,7 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel  
- 72 dpi

| 75,8 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697

Pixel - 72 dpi

| 96,8 kB | .cdr |

### Diagramm/Product/Travel



ID: kazm1s02

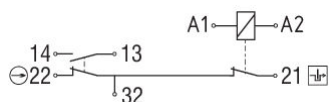
| 2,0 kB | .png | 74.083 x 25.753 mm - 210 x 73 Pixel  
- 72 dpi

| 19,7 kB | .cdr |

| 50,1 kB | .jpg | 352.778 x 123.119 mm - 1000 x 349

Pixel - 72 dpi

### Graphic/Product/Contact

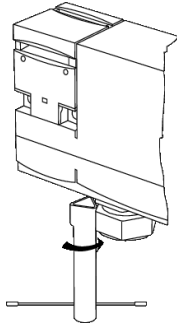


ID: kazm1k12

| 40,9 kB | .jpg | 352.778 x 113.947 mm - 1000 x 323

Pixel - 72 dpi

## Illustration/Product/Function

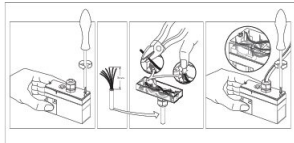


ID: kazm1a70

| 213,5 kB | .jpg | 352.778 x 656.519 mm - 1000 x 1861 Pixel - 72 dpi

| 6,5 kB | .png | 74.083 x 137.583 mm - 210 x 390 Pixel - 72 dpi

## Graphic/Product/Mounting



ID: kazm1m06

| 98,4 kB | .cdr |

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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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