

## AZM 415-11/11ZPKE 24 VAC/DC



- Long life
- Robust design
- Manual release
- Metal enclosure
- Ex version available
- Cut clamp termination
- 141 mm x 100 mm x 46,5 mm
- 2 cable entries M 20 x 1.5
- 2 switches in one enclosure
- Adjustable ball latch to 400 N
- Interlock with protection against incorrect locking.
- Problem-free opening of stressed doors by means of bell-crank system

### Data

#### Ordering data

|                               |                             |
|-------------------------------|-----------------------------|
|                               | AZM 415-11/11ZPKE 24 VAC/DC |
|                               | 101167190                   |
| EAN (European Article Number) | 4030661218052               |
| eCl@ss number, Version 9.0    | 27-27-26-03                 |

#### Approval - Standards

cULus  
CCC  
EAC

#### General data

|                                      |                   |
|--------------------------------------|-------------------|
|                                      | AZM 415           |
|                                      | EN 60947-5-1      |
|                                      | BG-GS-ET-19       |
| Active principle                     | electromechanical |
| Enclosure material                   | Aluminium         |
| Enclosure coating material           | painted           |
| Material of the contacts, electrical | Silver            |
| Gross weight                         | 915 g             |

## General data - Features

|                                |     |
|--------------------------------|-----|
| Power to unlock                | Yes |
| Manual release                 | Yes |
| Number of actuating directions | 1   |
| Number of auxiliary contacts   | 2   |
| Number of safety contacts      | 2   |
| Number of guard doors          | 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 |
| Clamping force in accordance with ISO14119 $F_{zh}$ | 3,500 N              |
| Latching force, minimum                             | 150 N                |
| Latching force, maximum                             | 400 N                |
| positive break travel                               | 5 mm                 |
| Positive break force, minimum                       | 15 N                 |
| Actuating speed, maximum                            | 0.2 m/s              |

## Mechanical data - Connection technique

|                      |                                                                               |
|----------------------|-------------------------------------------------------------------------------|
| Terminal Connector   | Screw connection<br>2 x 0.75 mm <sup>2</sup><br>2 x 2.5 mm <sup>2</sup>       |
| Note (Cable section) | All indications about the cable section are including the conductor ferrules. |

## Mechanical data - Dimensions

|                  |         |
|------------------|---------|
| Height of sensor | 100 mm  |
| Length of sensor | 46.5 mm |
| Width of sensor  | 141 mm  |

## Ambient conditions

|                              |                       |
|------------------------------|-----------------------|
| Protection class             | IP 67 to IEC/EN 60529 |
| Ambient temperature, minimum | -25 °C                |
| Ambient temperature, maximum | +50 °C                |

## Ambient conditions - Insulation value

Rated impulse withstand voltage 4 kV

## Electrical data

Thermal test current 6 A  
Rated control voltage 24 VAC/DC  
Utilisation category AC-15 230 VAC  
Utilisation category AC-15 4 A  
Utilisation category DC-13 24 VDC  
Utilisation category DC-13 1 A  
Electrical power consumption, maximum 10 W  
Switching element NO contact, NC contact  
Switching principle Creep circuit element

## Other data

Note (applications) sliding safety guard  
hinged safety guard

## Notes

Note (Manual release) using triangular key  
For maintenance, installation, etc.  
For manual release using M5 triangular key, available as accessory  
Only used on units with power to unlock principle

## Ordering code

Product type description:

AZM 415-(1)(2)PK(3)-(4) (5)(6)-(7)

(1)

**11/11** 2 NC contacts/2 NO contacts

**11/02** 3 NC contacts / 1 NO contacts

**11/20** 1 NC contacts / 3 NO contacts

**02/11** 3 NC contacts / 1 NO contacts

**02/20** 2 NC contacts / 2 NO contacts

**02/02** 4 NC contact

(2)

**X** Protection class IP54

**Z** Protection class IP67

(3)

**without** Power to unlock

**A** Power to lock

(4)

**STR** Connector M23 right

**ST** Connector M23 bottom

(5)

**without** Without manual release

**E** Manual release using triangular key

**F** with triangular key (secured with locking screw)

**FE** using triangular key

**RS** Manual release using key

**T** Emergency exit using latched pushbutton (power to unlock only)

**TE** Emergency exit using latched pushbutton and manual release, mounting outside (power to unlock only)

**TEI** Emergency exit using latched pushbutton and manual release, mounting inside (power to unlock only)

**NS** Emergency release using lock button

(6)

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

**110VAC** Us: 110 VAC

**230VAC** Us: 230 VAC

(7)

**1637** Gold-plated contacts

(1)

**A** Power to lock

(2)

**ST** Connector M23 right

**without** Power to unlock

**STR** Connector M23 bottom

(3)

**without** Without manual release

**E** Manual release using triangular key (only for power to unlock principle)

(4)

**1637** Gold-plated contacts

## Pictures

**Photo/Product/Catalogue**



ID: kazm4f16

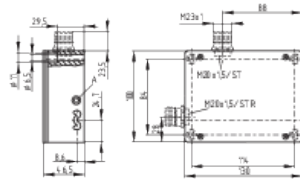
| 35,1 kB | .png | 74.083 x 53.975 mm - 210 x 153

Pixel - 72 dpi

| 549,7 kB | .jpg | 352.778 x 257.175 mm - 1000 x 729

Pixel - 72 dpi

**Dimension/Product/Basic**



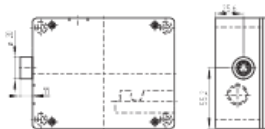
ID: 1azm4g01

| 9,5 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel  
- 72 dpi

| 132,1 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695  
Pixel - 72 dpi

| 35,2 kB | .cdr |

**Dimension/Product/Basic**



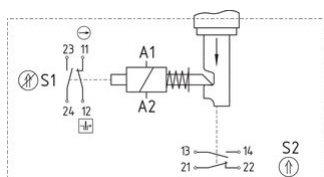
ID: 1azm4g04

| 76,2 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695  
Pixel - 72 dpi

| 26,3 kB | .cdr |

| 3,2 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel  
- 72 dpi

**Graphic/Product/Contact**



ID: kazm4k25

| 80,4 kB | .jpg | 352.778 x 188.031 mm - 1000 x 533  
Pixel - 72 dpi

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal

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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