



## EX-AZM 415-11/11ZPK 24VAC/DC-3D

- Ex-Zone 22
- Metal enclosure
- 130 mm x 100 mm x 46,5 mm
- Clamping force 3500N
- 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
- 2 cable entries M 20 x 1.5

## Data

### Ordering data

Product type description	EX-AZM 415-11/11ZPK 24VAC/DC-3D
Article number (order number)	101186171
EAN (European Article Number)	4030661326016
eCl@ss number, version 9.0	27-27-26-03
eCl@ss number, version 11.0	27-27-26-03
eCl@ss number, version 12.0	27-27-26-03
ETIM number, version 7.0	EC002593
ETIM number, version 6.0	EC002593

### Explosion protection

Explosion protection: regulations	EN 60079-0 EN 60079-31
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Explosion protection zones	22
Explosion protection category	3D
Explosion protection designation	 II 3D Ex tc IIIC T90°C Dc X
Manufacturer declaration	ATEX Zone 22

## General data

Standards	IEC 60947-5-1
Working principle	electromechanical
Enclosure material	Aluminium
Enclosure coating material	painted
Material of the contacts, electrical	Silver
Gross weight	925 g

## General data - Features

Power to unlock	Yes
Number of actuating directions	1
Number of auxiliary contacts	2
Number of safety contacts	2

## Safety classification

Standards	EN ISO 13849-1
Mission time	20 Year(s)

## Safety classification - Safety outputs

B <sub>10D</sub> Normally-closed contact (NC)	2,000,000 Operations
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## Mechanical data

Mechanical life, minimum	1,000,000 Operations
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Impact energy, maximum	4 J
Holding force	3,500 N
Latching force, minimum	80 N
Latching force, maximum	400 N
positive break travel	5 mm
Positive break force, minimum	15 N
Actuating speed, maximum	1 m/s

### Mechanical data - Connection technique

Type of connection	Screw terminals M20 x 1.5
Cable cross-section of the cable glands, minimum	7 mm
Cable cross-section of the cable glands, maximum	12 mm
Cable section, minimum	0.75 mm <sup>2</sup>
Cable section, maximum	2.5 mm <sup>2</sup>
Note (Cable section)	All indications including the conductor ferrules.

### Mechanical data - Dimensions

Length of sensor	46.5 mm
Width of sensor	130 mm
Height of sensor	100 mm

### Ambient conditions

Degree of protection	IP67
Ambient temperature, minimum	-10 °C
Ambient temperature, maximum	+50 °C

### Ambient conditions - Insulation values

Rated insulation voltage $U_i$	250 V
Rated impulse withstand voltage $U_{imp}$	4 kV

## Electrical data

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

## Scope of delivery

Scope of delivery	Actuators must be ordered separately. Including Ex-certified screwed cable gland and screw plug
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## Ordering code

Product type description:  
EX-AZM 415-(1)ZPK(2)-24VAC/DC-(3)-3D

(1)

<b>11/11</b>	2 NC contacts / 2 NO contacts
<b>02/11</b>	3 NC contacts / 1 NO contacts
<b>02/20</b>	2 NC contacts / 2 NO contacts
<b>02/02</b>	4 NC contact

(2)

<b>without</b>	Power to unlock
<b>A</b>	Power to lock

(3)

<b>1637</b>	Gold-plated contacts
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## Documents

### Operating instructions and Declaration of conformity

EX-AZM 415 (483.6 kB, 04/21/2022)

### Brochure

Explosion Protection Catalogue - ATEX (7.5 MB, 05/10/2019, Revision 05)

## Pictures

### Product picture (catalogue individual photo)

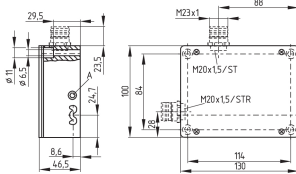


ID: kexazf10

| 455.3 kB | .jpg | 352.778 x 235.303 mm - 1000 x 667 px - 72 dpi

| 32.9 kB | .png | 74.083 x 49.389 mm - 210 x 140 px - 72 dpi

### Dimensional drawing basic component



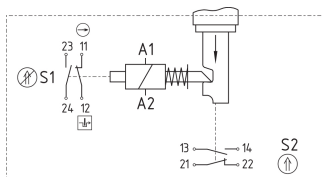
ID: 1azm4g01

| 35.2 kB | .cdr |

| 9.5 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi

| 132.1 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695 px - 72 dpi

### Diagram



ID: kazm4k25

| 59.7 kB | .ai | 297 x 210.002 mm - 841 x 595 px - 72 dpi

| 80.4 kB | .jpg | 352.778 x 188.031 mm - 1000 x 533 px - 72 dpi

## System components

## Actuator



### BETAETIGER AZ/AZM 415-B1

- For sliding doors
- Actuators with return spring
- Tolerates up to max. 6 mm overtravel



### BETAETIGER AZ/AZM 415-B3

- Particularly suitable for hinged guards
- For very small actuating radii at 90° to the plane of the actuator



### BETAETIGER AZ/AZM 415-B2

- Particularly suitable for hinged guards
- For very small actuating radii in line with the plane of the actuator



### BETAETIGER AZ/AZM 415-B4PS

- For sliding doors
- with locking bolt and ball latch

## Accessories



NO IMAGE  
AVAILABLE

### MONTAGEPLATTE KPL. MP AZM 415

- For simple mounting
- Subsequent adjustment enabled
- Suitable for all conventional profile systems

Image not found or type unknown



#### **SPERRZANGE SZ AZ 415-22-1**

- Lockout tag with 7 circular holes
- Suitable for mounting inside and outside of the hazardous area
- To prevent inadvertent closing, e.g. during maintenance
- For complex plant
- Prevents actuation of the switch



#### **TFA-010**

- Pre-positioning
- The actuator is independent from the centring device.
- Smooth insertion or retraction of the actuator



#### **TK-M5**

- For manual release using M5 triangular key, available as accessory
- For maintenance, installation, etc.

Schmersal, Inc., 15 Skyline Drive, Hawthorne, NY 10532

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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