Datasheet - EX-AZM 170-02ZKA-24VAC/DC-3G/D

Solenoid interlock / EX-AZM 170





- · Interlock with protection against incorrect locking.
- · Long life
- · High holding force
- Double-insulated
- 1 Cable entry M 20 x 1.5
- Ex-certified screwed cable gland
- Ex certified
- IDC method of termination
- Manual release

(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description

Article number

EAN code

EX-AZM 170-02ZKA-24VAC/DC-3G/D EX-AZM 170-02ZKA-24VAC/DC-3G/D

Approval

Approval



Classification

Standards

B10d Normally-closed contact (NC)

Mission time

notice

EN ISO 13849-1

2.000.000

20 Years

$$MTTF_d = \frac{B_{10d}}{0.1 \times n_{op}}$$

$$n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{ovole}}$$

Global Properties

Product name

Standards

EX-AZM 170

Ex nC IIB T5 X, Ex tD A22 IP67 T80° C X, EN 60947-5-1, EN 61241-0, EN 61241-1, EN 60079-0, EN 60079-15, BG-GS-ET-19

Compliance with the Directives (Y/N) € €

Duty cycle

Materials

- Material of the housings

- Material of the contacts

Housing coating

Weight

Yes

Magnet 100 %

Plastic, glass-fibre reinforced thermoplastic, self-extinguishing

Silver

None

Mechanical data

Design of electrical connection

Cable cross-section of the cable glands

Min. Cable cross-section of the cable glands
 Max. Cable cross-section of the cable glands

Cable section

Min. Cable sectionMax. Cable section

Mechanical life

Emergency unlocking device (Y/N) Manual release (Y/N)

- bottom

Emergency release (Y/N) Latching force Positive break force positive break travel Clamping force Fmax IDC method of termination

Ø 6.5 mm Ø 12 mm

1 x 0,75 mm², flexible

1 x 1 mm², flexible > 1.000.000 operations

No Yes

No 5 N 17 N 11 mm

> 1000 N 1 m/s

Ambient conditions

Max. Actuating speed

Ambient temperature

Min. environmental temperatureMax. environmental temperature

Protection class

−15 °C

+45 °C

IP67 to IEC/EN 60529

Electrical data

Design of control element

Switching principle

Number of auxiliary contacts Number of safety contacts Power to unlock

Rated control voltage Us Power consumption

Power to lock

Rated insulation voltage Ui Thermal test current Ithe Utilisation category

Rated impulse withstand voltage Uimp

Max. fuse rating

Opener (NC)

Creep circuit element

0 piece 2 piece No Yes

24 VAC/DC max. 10 W 4 kV 250 V 2 A

AC-15: 230 V / 2 A, DC-13: 24 V / 2 A

6 A gG D-fuse

ATEX

Explosion protection Zones for gases
Explosion protected category for dusts

Explosion protected category for dusts

Explosion protection Zones for dusts

ATEX dust ex-protection, Cat. 3

22

2

Dimensions

Dimensions of the sensor

- Width of sensor
 - Height of sensor
 - Length of sensor
 30 mm

notice

This type termination (IDC) method enables simple connetion of flexible conductors without the need for the use of conductor ferrules Individual coding available on request

Manual release

- For manual release using M5 triangular key, available as accessory

Included in delivery

Actuators must be ordered separately.

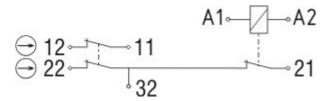
Including Ex-certified screwed cable gland and screw plug

Keywords

Keywords

Ex, EEx, ATEX, Ex AZM170, Ex AZM170, AZM 170 Ex, AZM170ex, AZM170ex, ATEX AZM170

Diagram



Note Diagram

opositive break NC contact

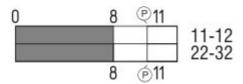
① active

no active

o-__- Normally-open contact

o-t---o Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

Contact closed

Setting range			
P Desitive energing seguence/ angle			
VS adjustable range of NO contact			
VÖ adjustable range of NC contact	djustable range of NC contact er travel ring suffix applicable ordering suffix is added at the end of the part number of the safety switch. r example: EX-AZM 170-02ZKA-24VAC/DC-3G/D-1637 37 0,3 µm gold-plated contacts ring code AZM 170-(1)Z(2)K(3)-24VAC/DC-(4)-3G/D 1 Normally open contact (NO) / 1 Opener (NC) 2 Opener (NC)		
Ordering suffix The applicable ordering suffix is added at the end of the part number of the safety switch. Order example: EX-AZM 170-02ZKA-24VAC/DC-3G/D-1637			
		1637	0,3 μm gold-plated contacts
		Ordering code	
EX-AZM 170-(1)Z(2)K(3)-24VAC/DC-(4)-3G/D			
(1)			
11			
02	2 Opener (NC)		
(2)			
without			
R	Latching force 30 N		
(3)			
without	Power to look		
A	Power to lock		
(4)	Manual release		
without	Manual release		

gold-plated contacts

Documents

1637

Operating instructions and Declaration of conformity (pl) 565 kB, 17.07.2013

Code: mrl_ex-azm170_pl

Operating instructions and Declaration of conformity (en) 527 kB, 18.03.2013

Code: mrl_ex-azm170_en

Operating instructions and Declaration of conformity (es) 531 kB, 25.07.2013

Code: mrl_ex-azm170_es

Operating instructions and Declaration of conformity (jp) 642 kB, 25.07.2013

Code: mrl_ex-azm170_jp

Operating instructions and Declaration of conformity (fr) 533 kB, 25.07.2013

Code: mrl_ex-azm170_fr

Operating instructions and Declaration of conformity (da) 531 kB, 25.07.2013

Code: mrl_ex-azm170_da

Operating instructions and Declaration of conformity (de) 522 kB, 20.02.2013

Code: mrl_ex-azm170_de

Operating instructions and Declaration of conformity (it) 528 kB, 25.07.2013

Code: mrl_ex-azm170_it

Operating instructions and Declaration of conformity (nl) 705 kB, 14.07.2010

Code: mrl_ex-azm170_nl

Brochure (it) 3 MB, 20.07.2007

Code: b_atep05

Brochure (de) 7 MB, 25.02.2011

Code: b_atep01

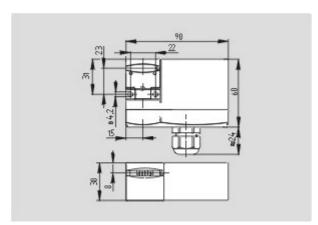
Brochure (es) 5 MB, 18.08.2009

Code: b_atep09

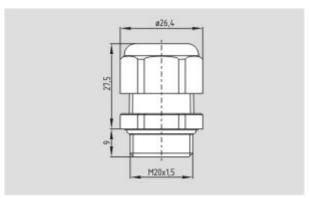
Brochure (en) 8 MB, 28.08.2012

Code: b_atep02

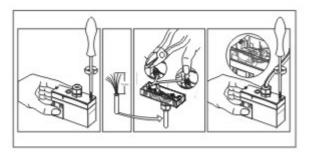
Images



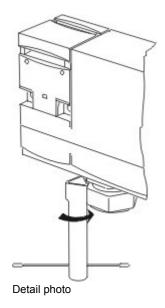
Dimensional drawing (basic component)



Dimensional drawing (miscellaneous)



Assembly example



System components

Actuator



101123391 - AZM 170-B6

- For very smal actuating radii
- The direction of actuation can be selected by applicable insertion of the insert



1122895 - AZ 17/170-B5

• Particularly suitable for hinged guards (front mounting)



1139789 - AZ 17/170-B15

• Particularly suitable for hinged guards (front mounting)

1139788 - AZ 17/170-B11

· Particularly suitable for sliding doors





1137406 - AZ 17/170-B1-2245

• Damps vibration on guard device



101122893 - AZ 17/170-B1

• Particularly suitable for sliding doors

Accessories



101100887 - TRIANGULAR KEY M5

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

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal The data and values have been checked throroughly. Technical modifications and errors excepted. Generiert am 13.03.2014 - 12:54:49h Kasbase 2.2.18.F DBI

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