Datasheet - EX-AZM 170-02ZRKA-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

eCl@ss

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

101194966

4030661360010

27-27-26-03

Approval

Approval ATEX

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

Permanent light

Standards

EX-AZM 170

EN 60079-0, EN 60079-15, EN 60079-31, EN 60947-5-1, BG-GS-ET-19

Compliance with the Directives (Y/N) € €

Duty cycle ED

Materials

Magnet 100 %

Yes

IDC method of termination

- Material of the housings Plastic, glass-fibre reinforced thermoplastic, self-extinguishing

- Material of the contacts Silver Housing coating None Weight 289

Mechanical data

Design of electrical connection

Cable cross-section of the cable glands

- Min. Cable cross-section of the cable glands Ø 6.5 - Max. Cable cross-section of the cable glands Ø 12

Cable section

- Min. Cable section 1 x 0,75, flexible - Max. Cable section 1 x 1, flexible

Mechanical life > 1.000.000 operations

Emergency unlocking device (Y/N) No Manual release (Y/N) Yes

- bottom

Emergency release (Y/N) No Latching force 30 17 Positive break force positive break travel 11 1000 N Clamping force F Impact energy 1 J Max. Actuating speed 1

Ambient conditions

Ambient temperature

- Min. environmental temperature -15 - Max. environmental temperature +45

Protection class IP67 to IEC/EN 60529

Electrical data

Opener (NC) Design of control element

Switching principle Creep circuit element

Number of auxiliary contacts 0 2 Number of safety contacts Power to unlock No Power to lock Yes

24 VAC/DC Rated control voltage Us Power consumption max. 10 W Rated impulse withstand voltage Uimp 4 kV Rated insulation voltage Ui 250 V Thermal test current Ithe

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

Max. fuse rating 6 A gG D-fuse

ATEX

EX-marking

EX II 3D Ex tc IIIC T80°C Dc X

EX II 3G Ex nC IIB T5 Gc X

Explosion protection categories for gases

Explosion protection Zones for gases

Explosion protected category for dusts

Explosion protection Zones for dusts

22

Dimensions

Dimensions of the sensor

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

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.

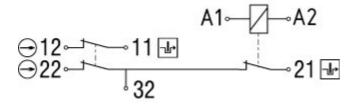
Including Ex-certified screwed cable gland and screw plug

Keywords

Keywords

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

Diagram



Note Diagram

ositive break NC contact

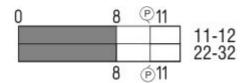


no active

O—____ Normally-open contact

o----- Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

Contact closed		
Contact open		
Setting range		
Break point		
Positive opening sequence/- angle		
VS adjustable range of NO contact		
VÖ adjustable range of NC contact N after travel		
National desired		
Ordering suffix		
The applicable ordering suffix is added at the end of the p		
Order example: EX-AZM 170-02ZRKA-24VAC/DC-3G/D-	1637	
1637	0,3 μm gold-plated contacts	
	o,o pin gold plated contacte	
Ordering code		
EX-AZM 170-(1)Z(2)K(3)-24VAC/DC-(4)-3G/D		
(1)		
11	1 Normally open contact (NO) / 1 Opener (NC)	
02	2 Opener (NC)	
(2)		

(2)

withoutLatching force 5 NRLatching force 30 N

(3)

withoutPower to unlockAPower to lock

(4)

withoutManual release1637gold-plated contacts

Documents

Operating instructions and Declaration of conformity (pl) 502 kB, 12.04.2018

Code: mrl_ex-azm170_pl

Operating instructions and Declaration of conformity (en) 474 kB, 26.03.2018

Code: mrl_ex-azm170_en

Operating instructions and Declaration of conformity (es) 475 kB, 29.03.2018

Code: mrl_ex-azm170_es

Operating instructions and Declaration of conformity (cn) 525 kB, 27.07.2017

Code: mrl_ex-azm170_cn

Operating instructions and Declaration of conformity (jp) 752 kB, 18.08.2017

Code: mrl_ex-azm170_jp

Operating instructions and Declaration of conformity (fr) 473 kB, 29.03.2018

Code: mrl_ex-azm170_fr

Operating instructions and Declaration of conformity (da) 532 kB, 11.04.2018

Code: mrl_ex-azm170_da

Operating instructions and Declaration of conformity (de) 448 kB, 26.03.2018

Code: mrl_ex-azm170_de

Operating instructions and Declaration of conformity (pt) 477 kB, 29.03.2018

Code: mrl_ex-azm170_pt

Operating instructions and Declaration of conformity (it) 468 kB, 29.03.2018

Code: mrl_ex-azm170_it

Operating instructions and Declaration of conformity (nl) 472 kB, 29.03.2018

Code: mrl_ex-azm170_nl

Brochure (de) 7 MB, 19.10.2016

Code: b_atep01_de

Brochure (en) 7 MB, 19.10.2016

Code: b_atep01_en

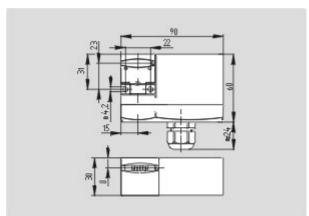
Brochure (it) 3 MB, 20.07.2007

Code: b_atep05

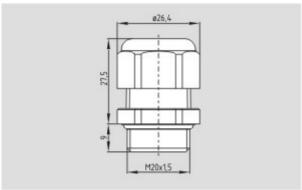
Brochure (es) 5 MB, 18.08.2009

Code: b_atep09

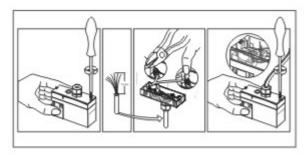
Images



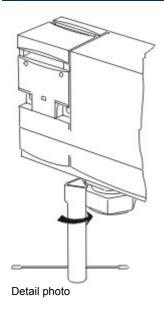
Dimensional drawing (basic component)



Dimensional drawing (miscellaneous)



Assembly example



System components

Actuator



101123391 - AZM 170-B6

- Particularly suitable for hinged guards
- For very smal actuating radii
- The direction of actuation can be selected by applicable insertion of the insert



101122895 - AZ 17/170-B5

• Particularly suitable for sliding doors



101139789 - AZ 17/170-B15

• Particularly suitable for sliding doors



• Particularly suitable for sliding doors



101137406 - AZ 17/170-B1-2245

- · Particularly suitable for sliding doors
- Damps vibration on guard device



101122893 - AZ 17/170-B1

• Particularly suitable for sliding doors

Accessories



101100887 - TRIANGULAR KEY TK-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 13.02.2019 - 14:52:27h Kasbase 3.3.0.F.64I