19.08.2015

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SCHMERSAL

# Datasheet - AZM 170-11ZRKA-ST 24 VAC/DC

Solenoid interlock / AZM 170

Preferred typ



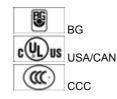
(Minor differences between the printed image and the original product may exist!)

## **Ordering details**

Product type description Article number EAN code eCl@ss AZM 170-11ZRKA-ST 24 VAC/DC 101141455 4030661122014 27-27-26-03

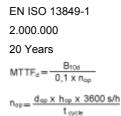
## Approval

Approval



## Classification

Standards		
B10d Opener (NC)		
Mission time		
notice		



## **Global Properties**

Standards	EN 60947-5-1, BG-GS-ET-19
Compliance with the Directives (Y/N) CE	Yes
Number of actuating directions	2 piece
Active principle	electromechanical
Duty cycle	Magnet 100 %
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
- Material of the contacts	Silver
Housing coating	None
Weight	285 g

## Mechanical data

Design of electrical connection	Connector M12
ů	
Mechanical life	> 1.000.000 operations
Emergency unlocking device (Y/N)	No
- bottom	
Manual release (Y/N)	Yes
Emergency release (Y/N)	No
Latching force	30 N
Positive break force	8.5 N
positive break travel	11 mm
Clamping force Fmax	1000 N
Max. Actuating speed	2 m/s

## **Ambient conditions**

Ambient temperature	
- Min. environmental temperature	−25 °C
- Max. environmental temperature	+60 °C
Protection class	IP67 to IEC/EN 60529

## **Electrical data**

Design of control element	Normally open contact (NO), Opener (NC)
notice	change-over contact with double break, type Zb or 2 NC contacts, with galvanically separated contact bridges
Switching principle	Creep circuit element
Number of auxiliary contacts	1 piece
Number of safety contacts	1 piece
Power to unlock	No
Power to lock	Yes
Rated control voltage Us	24 VAC/DC
Power consumption	max. 10 W
Rated impulse withstand voltage Uimp	4 kV
Rated insulation voltage Ui	250 V
Thermal test current Ithe	10 A
Utilisation category	AC-15: 230 V / 4 A, DC-13: 24 V / 4 A
Max. fuse rating	6 A gG D-fuse

## ATEX

Explosion protection categories for gases	
Explosion protected category for dusts	



sliding safety guard, removable guard,

## Dimensions

Applications

Dimensions of the sensor	
- Width of sensor	90 mm
- Height of sensor	75.5 mm
- Length of sensor	30 mm

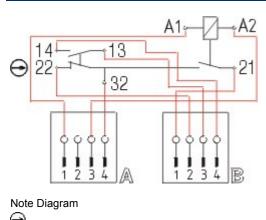
#### notice

Individual coding available on request

Manual release

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

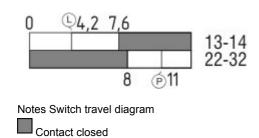
## Diagram



⇒ positive break NC contact
ⓐ active
ⓐ no active
○ Normally-open contact
○ Normally-closed contact

## Switch travel diagram

Contact open Setting range



Positive opening sequence/- angle VS adjustable range of NO contact VÖ adjustable range of NC contact N after travel

#### **Ordering suffix**

The applicable ordering suffix is added at the end of the part number of the safety switch. Order example: AZM 170-11ZRKA-ST 24 VAC/DC-**1637** 

1637	0,3 μm gold-plated contacts
ST-2431	connector M12 , Individual solenoid monitoring

#### **Ordering code**

AZM 170(1)-(2)Z(3)K(4)-(5)-(6)-(7) (1) without IDC method of termination SK Screw connection (2) 1 Normally open contact (NO) / 1 Opener (NC) 11 02 2 Opener (NC) 12/0.0 1 Normally open contact (NO), 2 Opener (NC) / -(3) without Latching force 5 N R Latching force 30 N I Individual coding (4) without Power to unlock Power to lock Α (5) without cable gland ST Connector M12 x 1 ST-2431 Connector M12 x 1, Individual solenoid monitoring (6) 24VAC/DC Us 24 VAC/DC 110VAC Us 110 VAC 230VAC Us 230 VAC (7) without Manual release 2197 Manual release from side (Power to unlock) 1637 gold-plated contacts AZM 170ST and AZM 170SK AZM 170ST-(1)Z(2)K(3)-(4)-(5)-024 AZM 170SK-(1)Z(2)K(3)-(4)-(5)-024 (1) 11/11 1 Normally open contact (NO), 1 Opener (NC) / 1 Normally open contact (NO), 1 Opener (NC) 11/02 1 Normally open contact (NO), 1 Opener (NC) / 2 Opener (NC)

12/00	1 Normally open contact (NO), 2 Opener (NC) / -
12/11	1 Normally open contact (NO), 2 Opener (NC) / 1 Normally open contact (NO), 1 Opener (NC)
12/02	1 Normally open contact (NO), 2 Opener (NC) / 2 Opener (NC)
02/01	2 Opener (NC), - / 1 Opener (NC), -
02/10	2 Opener (NC), - / 1 Normally open contact (NO), -
(2)	
without	Latching force 5 N
R	Latching force 30 N
(3)	
without	Power to unlock
Α	Power to lock
(4)	
1637	gold-plated contacts
(5)	
2197	Manual release for Power to unlock

#### **Documents**

**Operating instructions and Declaration of conformity** (fr) 670 kB, 01.07.2010 Code: mrl\_azm170\_fr

**Operating instructions and Declaration of conformity** (de) 923 kB, 24.02.2011 Code: mrl\_azm170\_de

**Operating instructions and Declaration of conformity** (it) 645 kB, 09.04.2010 Code: mrl\_azm170\_it

**Operating instructions and Declaration of conformity** (nl) 720 kB, 23.09.2010 Code: mrl\_azm170\_nl

**Operating instructions and Declaration of conformity** (en) 746 kB, 12.03.2010 Code: mrl\_azm170\_en

**Operating instructions and Declaration of conformity** (jp) 709 kB, 14.04.2011 Code: mrl\_azm170\_jp

**Operating instructions and Declaration of conformity** (pl) 590 kB, 11.02.2015 Code: mrl\_azm170\_pl

**Operating instructions and Declaration of conformity** (da) 582 kB, 07.08.2012 Code: mrl\_azm170\_da

**Operating instructions and Declaration of conformity** (es) 665 kB, 25.03.2010 Code: mrl\_azm170\_es

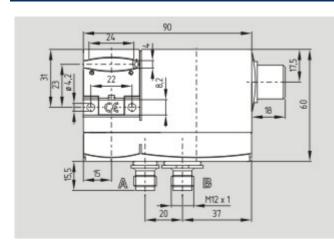
**BG-test certificate** (en) 236 kB, 10.12.2013 Code: z\_m17p02

**BG-test certificate** (de) 238 kB, 10.12.2013 Code: z\_m17p01

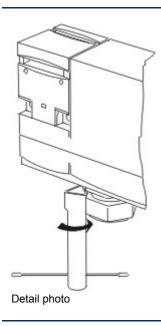
CCC certification (en) 596 kB, 23.06.2014 Code: q\_371p02 **CCC certification** (cn) 607 kB, 23.06.2014 Code: q\_371p03

Gost certification (ru) 2 MB, 07.07.2011 Code: q\_az1p01

## Images



Dimensional drawing (basic component)



## System components

#### Actuator



#### 101122893 - AZ 17/170-B1

Particularly suitable for sliding doors

#### 101137406 - AZ 17/170-B1-2245

Particularly suitable for sliding doors

Damps vibration on guard device











## S-K4M12

- Connector without cable
- 4-pole

#### A-K4M12

- Pre-wired cable
- 4-pole



#### S-K4M12

- Connector without cable
- 4-pole

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 19.08.2015 - 01:35:11h Kasbase 3.1.12.F.64I