19.08.2015

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# Datasheet - AZM 170-11ZRKA-ST 230 VAC

Solenoid interlock / AZM 170





Thermoplastic enclosure

- Double-insulated
- Compact design
- 90 mm x 84 mm x 30 mm
- · Interlock with protection against incorrect locking.
- Long life
- High holding force
- Connector M12, 4-pole
- Manual release

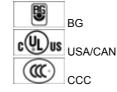
# Ordering details

Product type description
Article number
EAN code
eCl@ss

AZM 170-11ZRKA-ST 230 VAC 101141428 4030661121949 27-27-26-03

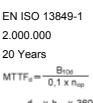
# Approval





#### Classification

Standards
B10d Opener (NC)
Mission time
notice



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

#### **Global Properties**

Product name Standards

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	308 g

### Mechanical data

Design of electrical connection	Connector M12
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 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	230 VAC
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	

# Applicationsiding safety guard,<br/>removable guard,<br/>injeed safety guardDimensionsImage safety guardDimensions of the sensor90 mm- Width of sensor90 mm- Height of sensor75.5 mm- Length of sensor30 mm

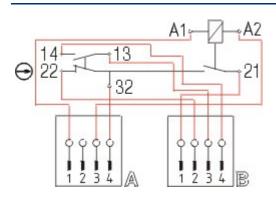
#### notice

Individual coding available on request

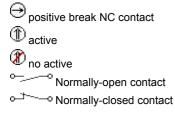
#### Manual release

For manual release using M5 triangular key, available as accessory

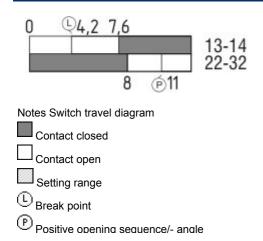
# Diagram



Note Diagram



#### Switch travel diagram



#### **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 230 VAC**-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)	
11	1 Normally open contact (NO) / 1 Opener (NC)
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
A	Power to lock
(5) without	cable gland
ST	Connector M12 x 1
ST-2431	Connector M12 x 1, Individual solenoid monitoring
24VAC/DC 110VAC	Us 24 VAC/DC 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

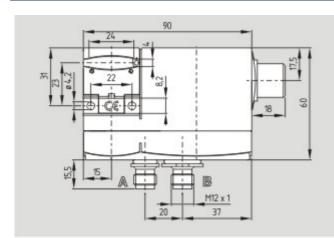
**BG-test certificate** (de) 238 kB, 10.12.2013 Code: z\_m17p01

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

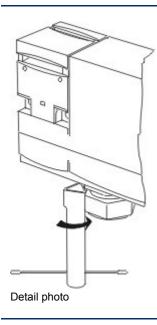
# Gost certification (ru) 2 MB, 07.07.2011

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 - 01:22:50h Kasbase 3.1.12.F.64I