


Datasheet - AZM 170SK-11/11ZRKA 24VAC/DC

Solenoid interlock / AZM 170



- Thermoplastic enclosure
- Double-insulated 
- Compact design
- 90 mm x 84 mm x 30 mm
- 1 Cable entry M 20 x 1.5
- Interlock with protection against incorrect locking.
- Long life
- High holding force
- Cut clamp termination

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

Ordering details

Product type description	AZM 170SK-11/11ZRKA 24VAC/DC
Article number	101182692
Strobe lamp	4030661318059
eCl@ss	27-27-26-03

Approval


Approval



Classification

Standards	EN ISO 13849-1
B10d Normally-closed contact (NC)	2.000.000
Mission time	20 Years
notice	$MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{cycle}}$

Global Properties

Permanent light	AZM 170
Standards	EN 60947-5-1, BG-GS-ET-19
Compliance with the Directives (Y/N) 	Yes
Number of actuating directions	2
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	300

## Mechanical data

Design of electrical connection	Screw terminals
Cable section	
- Min. Cable section	1 x 0,25
- Max. Cable section	1 x 1.5, flexible
Mechanical life	> 1.000.000 operations
Emergency unlocking device (Y/N)	No
Manual release (Y/N)	No
Emergency release (Y/N)	No
Latching force	30
Positive break force	8.5
positive break travel	11
Clamping force	1000
Max. Actuating speed	2

## Ambient conditions

Ambient temperature	
- Min. environmental temperature	-25
- Max. environmental temperature	+60
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	2
Number of safety contacts	2
Power to unlock	No
Power to lock	Yes
Rated control voltage	24/
Power consumption	10
Rated impulse withstand voltage	4
Rated insulation voltage	250
Thermal test current	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	None
Explosion protected category for dusts	None

Miscellaneous data

Applications	<div>sliding safety guard,</div> <div>removable guard,</div> <div>hinged safety guard</div>
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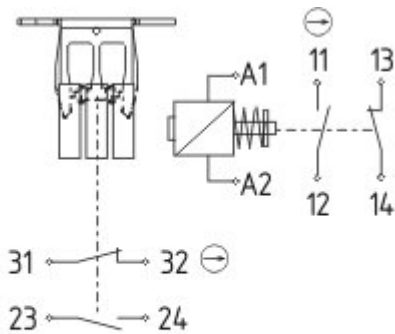
Dimensions

Dimensions of the sensor	
- Width of sensor	90
- Height of sensor	100.5
- Length of sensor	30






notice

Individual coding available on request

Diagram



11	12	13	14		23	24	31	32		A1	A2
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- Note Diagram
-  positive break NC contact
  -  active
  -  no active
  -  Normally-open contact
  -  Normally-closed contact

Ordering suffix

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

....-1637	0,3 µm gold-plated contacts
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...ST-2431

connector M12 , Individual solenoid monitoring

## Ordering code

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AZM 170(1)-(2)Z(3)K(4)-(5)-(6)-(7)

(1)

*without*

**SK**

IDC method of termination

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*

**R**

Latching force 5 N

Latching force 30 N

**I**

Individual coding

(4)

*without*

**A**

Power to unlock

Power to lock

(5)

*without*

**ST**

cable gland

Connector M12 x 1

**ST-2431**

Connector M12 x 1, Individual solenoid monitoring

(6)

**24VAC/DC**

U<sub>s</sub> 24 VAC/DC

**110VAC**

U<sub>s</sub> 110 VAC

**230VAC**

U<sub>s</sub> 230 VAC

(7)

*without*

**2197**

Manual release

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*

**R**

Latching force 5 N

Latching force 30 N

(3)

*without*

Power to unlock

<b>A</b>	Power to lock
<b>(4)</b>	
<b>1637</b>	gold-plated contacts
<b>(5)</b>	
<b>2197</b>	Manual release for Power to unlock

## Documents

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**Operating instructions and Declaration of conformity** (en) 509 kB, 21.04.2016

Code: mrl\_azm170-xx-xx\_en

**Operating instructions and Declaration of conformity** (da) 509 kB, 24.11.2015

Code: mrl\_azm170-xx-xx\_da

**Operating instructions and Declaration of conformity** (it) 509 kB, 22.04.2016

Code: mrl\_azm170-xx-xx\_it

**Operating instructions and Declaration of conformity** (nl) 511 kB, 24.11.2015

Code: mrl\_azm170-xx-xx\_nl

**Operating instructions and Declaration of conformity** (de) 494 kB, 21.04.2016

Code: mrl\_azm170-xx-xx\_de

**Operating instructions and Declaration of conformity** (cs) 546 kB, 24.11.2015

Code: mrl\_azm170-xx-xx\_cs

**Operating instructions and Declaration of conformity** (pt) 515 kB, 08.07.2016

Code: mrl\_azm170-xx-xx\_pt

**Operating instructions and Declaration of conformity** (jp) 601 kB, 07.09.2016

Code: mrl\_azm170-xx-xx\_jp

**Operating instructions and Declaration of conformity** (fr) 511 kB, 28.04.2016

Code: mrl\_azm170-xx-xx\_fr

**Operating instructions and Declaration of conformity** (es) 512 kB, 24.11.2015

Code: mrl\_azm170-xx-xx\_es

**Operating instructions and Declaration of conformity** (pl) 549 kB, 02.06.2017

Code: mrl\_azm170-xx-xx\_pl

**Operating instructions and Declaration of conformity** (cn) 544 kB, 05.05.2017

Code: mrl\_azm170-xx-xx\_cn

**BG-test certificate** (en) 260 kB, 09.12.2015

Code: z\_m17p02

**BG-test certificate** (de) 257 kB, 09.12.2015

Code: z\_m17p01

**CCC certification** (en) 1 MB, 13.06.2017

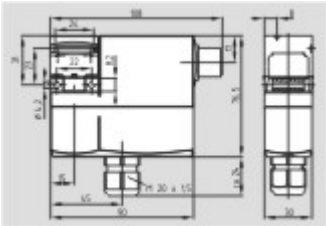
Code: q\_371p02

**CCC certification** (cn) 1 MB, 13.06.2017

Code: q\_371p03

Images

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Dimensional drawing (basic component)

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System components

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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



**101122895 - AZ 17/170-B5**  
• Particularly suitable for sliding doors



**101139788 - AZ 17/170-B11**  
• Particularly suitable for sliding doors



**101139789 - AZ 17/170-B15**  
• Particularly suitable for sliding doors

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#### **101123391 - AZM 170-B6**

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

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### **Accessories**



#### **101208493 - AZM 170-B CENTERING GUIDE**

- for AZ 17 and AZM 170



#### **101100887 - TRIANGULAR KEY TK-M5**

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

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### **Connector**



#### **A-K4M12**

- Pre-wired cable
- 4-pole



#### **S-K4M12**

- Connector without cable
- 4-pole