07.11.2017

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# Datasheet - AZM190-02/01RK-24VDC

Solenoid interlock / AZM190





- Thermoplastic enclosure
- Long life
- · Interlock with protection against incorrect locking.
- 89 mm x 178 mm x 41 mm
- Actuating head can be repositioned by 4 x 90°
- 2 cable entries M 20 x 1.5
- Wiring compartment
- Slim design, particularly suitable for fitting on hinged doors, aluminium profiles and fencing
- · Sealing mechanism to prevent the ingress of dirt
- Cut clamp termination
- Manual release

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

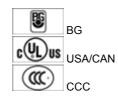
# **Ordering details**

Product type description Article number EAN code *Replaced article number 101178002* eCl@ss AZM190-02/01RK-24VDC 101178901 4030661451633

27-27-26-03

# Approval

Approval



### Classification

Standards B10d Opener (NC) B10d Normally open contact (NO) Mission time notice EN ISO 13849-1 2.000.000 1.000.000 20 Years MTTF<sub>d</sub> =  $\frac{B_{100}}{0.1 \times n_{op}}$ 

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

# **Global Properties**

Product name	AZM190
Standards	EN 60947-5-1, BG-GS-ET-19
Compliance with the Directives (Y/N) $CE$	Yes
Number of actuating directions	4 piece
Active principle	electromechanical
Duty cycle	Magnet 100 %
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic
- Material of the contacts	Silver
Housing coating	None
Weight	480 g

# Mechanical data

Connection type	Screw connection
Cable section	
- Min. Cable section	1 x 0,5 mm²
- Max. Cable section	1 x 1.5 mm²
Mechanical life	2.000.000 operations
notice	All indications about the cable section are including the conductor ferrules.
Emergency unlocking device (Y/N)	No
- front	
Manual release (Y/N)	Yes
Emergency release (Y/N)	No
Latching force	20 N
Positive break force	20 N
positive break travel	2 x 3.5 mm
Clamping force F	1950 N

# **Ambient conditions**

Ambient temperature	
- Min. environmental temperature	0°C
- Max. environmental temperature	+50 °C
Protection class	IP67 to IEC/EN 60529

# **Electrical data**

Design of control element	Normally open contact (NO), Opener (NC)
Switching principle	Creep circuit element
Number of auxiliary contacts	0 piece
Number of safety contacts	3 piece
Power to unlock	Yes
Power to lock	No
Rated control voltage Us	24 VDC
Power consumption	max. 8.5 W
Rated impulse withstand voltage Uimp	4 kV
Rated insulation voltage Ui	250 V
Thermal test current Ithe	4 A
Utilisation category	AC-15: 230 V / 4 A, DC-13: 24 V / 4 A

# ATEX

 Explosion protection categories for gases
 None

 Explosion protected category for dusts
 None

 Miscellaneous data
 Image: Applications

 Applications
 Image: Applications

 Dimensions
 Image: Application s

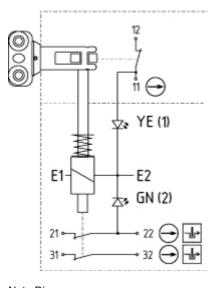
Dimensions of the sensor		
- Width of sensor	89 mm	
- Height of sensor	178 mm	
- Length of sensor	41 mm	

## notice

Manual release

- For manual release using triangular key M3 (included in delivery)
- For maintenance, installation, etc.

#### Diagram



Note Diagram

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

### **Ordering code**

AZM190-(1)RK(2)(3)-(4)-(5)

02/01	Magnet: 2 Opener (NC); Actuator: 1 Opener (NC)	
02/02	Magnet: 2 Opener (NC); Actuator 2 Opener (NC)	
02/10	Magnet: 2 Opener (NC); Actuator: 1 Normally open contact (NO)	
02/11	Magnet: 2 Opener (NC); Actuator: 1 Opener (NC) / 1 Normally open contact (NO)	
11/01	Magnet: 1 Opener (NC) / 1 Normally open contact (NO); Actuator: 1 Opener (NC)	
11/02	Magnet: 1 Opener (NC) / 1 Normally open contact (NO); Actuator: 2 Opener (NC)	
11/10	Magnet: 1 Opener (NC) / 1 Normally open contact (NO); Actuator: 1 Normally open contact (NO)	
11/11	Magnet: 1 Opener (NC) / 1 Normally open contact (NO); Actuator: 1 Opener (NC) / 1 Normally open contact (NO)	
(2)		
without	Power to unlock	
Α	Power to lock	
(3)		
without	With Manual release cover-side	
E0	Without Manual release	
E1	With Manual release lateral (right)	
N	Emergency release	
т	Emergency unlocking device	
(4)		
without	Without LED switching conditions display	
G	With LED switching conditions display (Only for 24 VAC/DC; not combinable in combination with -E1 und -T)	
(5)		
24VAC	Us: 24 VAC	
24VDC	Us: 24 VDC	
48VAC	Us: 48 VAC	
110VAC	Us: 110 VAC	
230VAC	Us: 230 VAC	

#### **Documents**

**Operating instructions and Declaration of conformity** (it) 470 kB, 15.04.2016 Code: mrl\_azm190\_it

**Operating instructions and Declaration of conformity** (jp) 576 kB, 19.05.2017 Code: mrl\_azm190\_jp

**Operating instructions and Declaration of conformity** (fr) 474 kB, 27.04.2016 Code: mrl\_azm190\_fr

**Operating instructions and Declaration of conformity** (pl) 509 kB, 19.04.2016 Code: mrl\_azm190\_pl

**Operating instructions and Declaration of conformity** (en) 470 kB, 14.03.2016 Code: mrl\_azm190\_en

**Operating instructions and Declaration of conformity** (cn) 553 kB, 01.06.2017 Code: mrl\_azm190\_cn

**Operating instructions and Declaration of conformity** (nl) 371 kB, 29.04.2014 Code: mrl\_azm190\_nl

### Operating instructions and Declaration of conformity (pt) 474 kB, 17.02.2017

Code: mrl\_azm190\_pt

**Operating instructions and Declaration of conformity** (es) 472 kB, 06.04.2016 Code: mrl\_azm190\_es

**Operating instructions and Declaration of conformity** (de) 472 kB, 14.03.2016 Code: mrl\_azm190\_de

**BG-test certificate** (en) 166 kB, 27.02.2014 Code: z\_m19p02

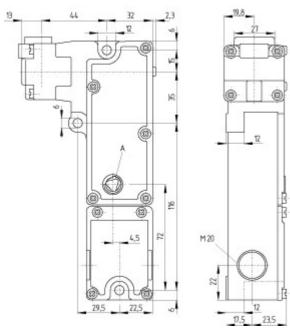
**BG-test certificate** (de) 169 kB, 27.02.2014 Code: z\_m19p01

CCC certification (cn) 872 kB, 16.08.2016 Code: q\_azmp07

CCC certification (en) 896 kB, 16.08.2016 Code: q\_azmp06

EAC certification (ru) 809 kB, 05.10.2015 Code: q\_6040p17\_ru

### Images



Dimensional drawing (basic component)

### System components

#### Actuator

101029965 - AZM190-B1

Compensation for tolerances by means of rubber buffers







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 07.11.2017 - 16:07:45h Kasbase 3.2.7.F.64I