13.02.2019

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Datasheet - AZM190-02/10RKN-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
- Emergency release

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

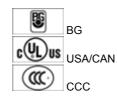
Ordering details

Product type description Article number EAN Code *Replaced article number 101155681* eCl@ss AZM190-02/10RKN-24VDC 101030175 4030661446127

27-27-26-03

Approval

Approval



Classification

Standards B10d Normally-closed contact (NC) B10d Normally open contact (NO) Mission time notice EN ISO 13849-1 2.000.000 1.000.000 20 Years MTTF_d = $\frac{B_{100}}{0.1 \times n_{op}}$

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

Global Properties

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

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)	No
Emergency release (Y/N)	Yes
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	1
Number of safety contacts	2
Power to unlock	Yes
Power to lock	No
Rated control voltage Us	24 VDC
Power consumption	max. 8.5 W
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,

ATEX

 Explosion protection categories for gases
 None

 Explosion protected category for dusts
 None

 Miscellaneous data
 Applications

 Dimensions
 Dimensions

 Dimensions of the sensor
 89 mm

 - Width of sensor
 89 mm

 - Height of sensor
 178 mm

41 mm

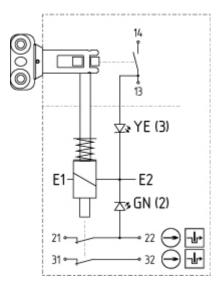
notice

Emergency release

- Length of sensor

- For cases of danger
- · Mounting only outside the guarded area

Diagram



Note Diagram

⊖ positive break NC contact

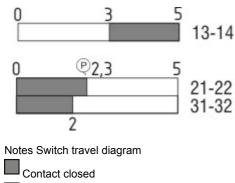
 $\textcircled{1}_{\text{active}}$

🏽 no active

•----• Normally-open contact

o------- Normally-closed contact

Switch travel diagram





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

Ordering code

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

(1)	
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)
Ν	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

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) 506 kB, 30.07.2018 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

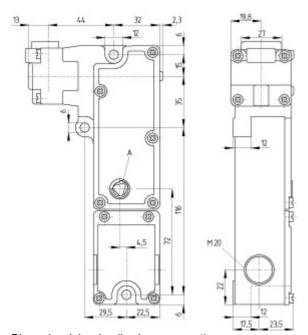
BG-test certificate (de) 169 kB, 27.02.2014 Code: z_m19p01

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 Image: Compensation for tolerances by means of rubber buffers 01029967 - AZM190-B3/1X15 Image: Compensation for tolerances by means of rubber buffers 101029967 - AZM190-B3/1X15 Image: Compensation for tolerances by means of rubber buffers 101029968 - AZM190-B3/1X15 Image: Compensation for tolerances by means of rubber buffers 101029968 - AZM190-B3/1X7,5 Image: Compensation for tolerances by means of rubber buffers 101029968 - AZM190-B3/1X7,5 Image: Compensation for tolerances by means of rubber buffers 101029968 - AZM190-B3/1X7,5 Image: Compensation for tolerances by means of rubber buffers 101029968 - AZM190-B3/1X7,5 Image: Compensation for tolerances by means of rubber buffers 101029968 - AZM190-B3/1X7,5 Image: Compensation for tolerances by means of rubber buffers 101029968 - AZM190-B3/1X7,5 Image: Compensation for tolerances by means of rubber buffers 101029968 - AZM190-B3/2X15 Image: Compensation for tolerances by means of rubber buffers 101029938 - AZM190-B3/2X15 Image: Compensation for tolerances by means of rubber buffers 101029938 - AZM190-B3/2X15

101029966 - AZM190-B5

• Particularly suitable for front mounting e.g. on hinged guards





103009487 - MP190-VD MOUNTING PLATE

Mounting of the solenoid interlock and mounting plate on the inside for left-hinged doors

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 - 14:49:26h Kasbase 3.3.0.F.64I