Datasheet - AZM190-02/10RK-24VDC

Solenoid interlock / AZM190



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

- 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

Ordering details

Product type description	AZM190-02/10RK-24VDC
Article number	101029960
EAN code	4030661446042
Replaced article number 101155612	
eCl@ss	27-27-26-03

Approval

Approval	BG USA/CAN CCC

Classification

Standards	EN ISO 13849-1
B_{10d} Opener (NC)	2.000.000
B_{10d} Normally open contact (NO)	1.000.000
Mission time	20 Years
notice	$MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$ $n_{op} = \frac{d_{op} \times h_{op} \times 3600\ s/h}{t_{cycle}}$

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	1 piece
Number of safety contacts	2 piece
Power to unlock	Yes
Power to lock	No
Rated control voltage U_s	24 VDC
Power consumption	max. 8.5 W
Rated impulse withstand voltage U_{imp}	4 kV
Rated insulation voltage U_i	250 V
Thermal test current I_{the}	4 A
Utilisation category	AC-15: 230 V / 4 A, DC-13: 24 V / 4 A

Max. fuse rating	4 A gG D-fuse DIN EN 60269-1

ATEX

Explosion protection categories for gases	None
Explosion protected category for dusts	None

Miscellaneous data

Applications	hinged safety guard

Dimensions

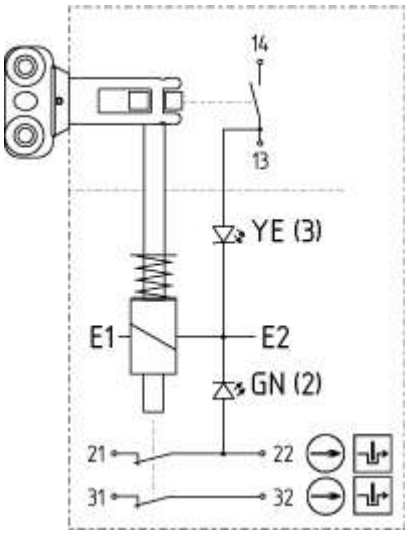
Dimensions of the sensor	
- Width of sensor	89 mm
- Height of sensor	178 mm
- Length of sensor	41 mm

notice

Manual release

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

Diagram



Note Diagram

positive break NC contact

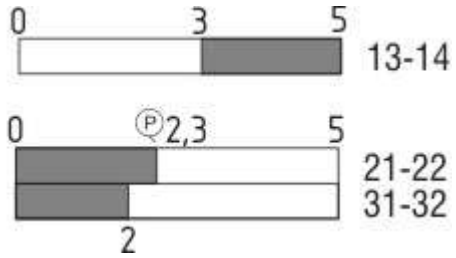
active

no active

Normally-open contact

Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

Contact closed

Contact open

Setting range

Break point

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
A	Power to lock
(3)	
without	With Manual release cover-side
E0	Without Manual release
E1	With Manual release lateral (right)
N	Emergency release
T	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	U_S: 24 VAC
24VDC	U_S: 24 VDC
48VAC	U_S: 48 VAC
110VAC	U_S: 110 VAC
230VAC	U_S: 230 VAC

Documents

Operating instructions and Declaration of conformity (it) 344 kB, 14.04.2014
Code: mrl_azm190_it

Operating instructions and Declaration of conformity (jp) 631 kB, 14.04.2014
Code: mrl_azm190_jp

Operating instructions and Declaration of conformity (fr) 470 kB, 25.09.2015
Code: mrl_azm190_fr

Operating instructions and Declaration of conformity (pl) 404 kB, 14.04.2014
Code: mrl_azm190_pl

Operating instructions and Declaration of conformity (en) 467 kB, 25.09.2015
Code: mrl_azm190_en

Operating instructions and Declaration of conformity (nl) 371 kB, 29.04.2014
Code: mrl_azm190_nl

Operating instructions and Declaration of conformity (es) 364 kB, 02.09.2014
Code: mrl_azm190_es

Operating instructions and Declaration of conformity (de) 453 kB, 25.09.2015
Code: mrl_azm190_de

BG-test certificate (en) 166 kB, 27.02.2014
Code: z_m19p02

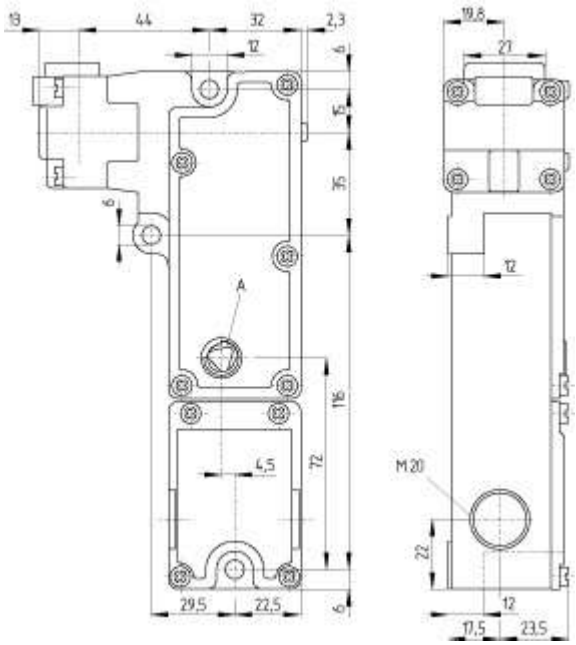
BG-test certificate (de) 169 kB, 27.02.2014
Code: z_m19p01

CCC certification (cn) 157 kB, 20.02.2015
Code: q_azmp07

CCC certification (en) 172 kB, 20.02.2015
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



101029967 - AZM190-B3/1X15



101029968 - AZM190-B3/1X7,5



101029938 - AZM190-B3/2X15

• For very smal actuating radii in line with or at 90° to the plane of the actuator

101029966 - AZM190-B5

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





103009445 - AZM190-B3V/15

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103009443 - AZM190-B3V/2X15

• For very smal actuating radii in line with or at 90° to the plane of the actuator
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103009444 - AZM190-B3V/7,5

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Accessories



101029969 - MP190 MOUNTING PLATE

• For simple mounting of an AZM190 on profile systems



101028565 - TRIANGULAR KEY TZ-75

• For manual release
• angled triangular key



103009486 - MP190-V MOUNTING PLATE

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103009487 - MP190-VD MOUNTING PLATE

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