# 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

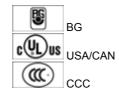
101178901

4030661451633

27-27-26-03

## **Approval**

Approval



# Classification

Standards

B<sub>10d</sub> Opener (NC)

B<sub>10d</sub> Normally open contact (NO)

Mission time

notice

EN ISO 13849-1

2.000.000

1.000.000

20 Years

$$MTTF_d = \frac{B_{10d}}{0.1 \times n_{co}}$$

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

#### **Global Properties**

Product name AZM190

Standards EN 60947-5-1, BG-GS-ET-19

Compliance with the Directives (Y/N) € 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  $1 \times 0.5 \text{ mm}^2$  - Max. Cable section  $1 \times 1.5 \text{ mm}^2$ 

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
 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

Power consumption

Rated impulse withstand voltage Uimp

4 kV

Rated impulse withstand voltage U<sub>imp</sub> 4 kV

Rated insulation voltage U<sub>i</sub> 250 V

Thermal test current I<sub>the</sub> 4 A

Utilisation category AC-15: 230 V / 4 A, DC-13: 24 V / 4 A

#### **ATEX**

Explosion protection categories for gases Explosion protected category for dusts

None

None

## Miscellaneous data

Applications



hinged safety guard

## **Dimensions**

Dimensions of the sensor

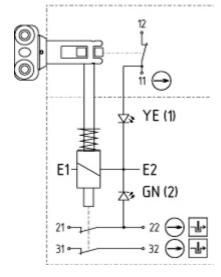
Width of sensor
 Height of sensor
 Length of sensor
 41 mm

## notice

## Manual release

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

## Diagram



# Note Diagram

⊖ positive break NC contact





°-\_\_- Normally-open contact

o-t--- Normally-closed contact

# **Ordering code**

02/01Magnet: 2 Opener (NC); Actuator: 1 Opener (NC)02/02Magnet: 2 Opener (NC); Actuator 2 Opener (NC)

02/10Magnet: 2 Opener (NC); Actuator: 1 Normally open contact (NO)02/11Magnet: 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 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

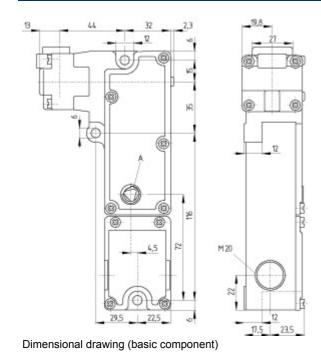
CCC certification (en) 896 kB, 16.08.2016

Code: q\_azmp06

EAC certification (ru) 809 kB, 05.10.2015

Code: q\_6040p17\_ru

#### **Images**



## **System components**

## **Actuator**

#### 101029965 - AZM190-B1





#### 101029967 - AZM190-B3/1X15



## 101029968 - AZM190-B3/1X7,5



## 101029938 - AZM190-B3/2X15

 $\bullet$  For very smal actuating radii in line with or at  $90^\circ$  to the plane of the actuator



## 101029966 - AZM190-B5

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



## 103009445 - AZM190-B3V/15

• Especially for aluminium profiles



## 103009443 - AZM190-B3V/2X15

- $\bullet$  For very smal actuating radii in line with or at  $90^\circ$  to the plane of the actuator
- Especially for aluminium profiles



# 103009444 - AZM190-B3V/7,5

• Especially for aluminium profiles

# 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

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



## 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 15.09.2017 - 11:27:32h Kasbase 3.2.7.F.64I