# Datasheet - AZM190-02/10RK-48VAC

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 101155610

eCl@ss

AZM190-02/10RK-48VAC

101030186

4030661446066

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

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

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

Permanent light AZM190

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

Compliance with the Directives (Y/N) **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  $1 \times 0.5 \text{ mm}^2$  - 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 Manual release (Y/N) Yes

- front

Emergency release (Y/N)

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 1 Number of safety contacts Power to unlock Yes Power to lock No Rated control voltage Us 48 VAC Power consumption max. 8.5 W Power consumption max. 8.5 W Rated impulse withstand voltage Uimp 4 kV 250 V Rated insulation voltage Ui

Thermal test current Ithe 4 A

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

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

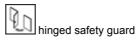
#### **ATEX**

Explosion protection categories for gases Explosion protected category for dusts

None None

# Miscellaneous data

Applications



#### **Dimensions**

Dimensions of the sensor

- Width of sensor- Height of sensor178 mm

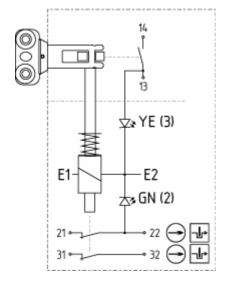
- Length of sensor 41 mm

#### notice

# Manual release

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

# Diagram



# Note Diagram

opositive break NC contact

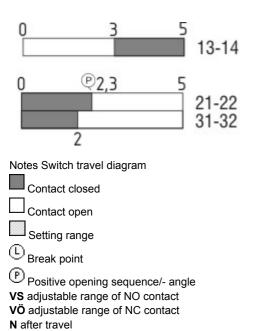




O—\_\_\_O Normally-open contact

o-t--- Normally-closed contact

# Switch travel diagram



# Ordering code

24VAC

24VDC

48VAC

110VAC

230VAC

AZM190-(1)RK(2)(3)-(4)-(5)
(1)
02/01
02/02
02/10
02/11
11/01
11/02
11/10
11/11
(2)
without
Α
(3)
without
E0
E1
N
Т
(4)
without
G
(5)

Magnet: 2 Opener (NC); Actuator: 1 Opener (NC)
Magnet: 2 Opener (NC); Actuator 2 Opener (NC)
Magnet: 2 Opener (NC); Actuator: 1 Normally open contact (NO)
Magnet: 2 Opener (NC); Actuator: 1 Opener (NC) / 1 Normally open contact (NO)
Magnet: 1 Opener (NC) / 1 Normally open contact (NO); Actuator: 1 Opener (NC)
Magnet: 1 Opener (NC) / 1 Normally open contact (NO); Actuator: 2 Opener (NC)
Magnet: 1 Opener (NC) / 1 Normally open contact (NO); Actuator: 1 Normally open contact (NO)
Magnet: 1 Opener (NC) / 1 Normally open contact (NO); Actuator: 1 Opener (NC) / 1 Normally open contact (NO)
Power to unlock
Power to lock
With Manual release cover-side
Without Manual release
With Manual release lateral (right)
Emergency release
Emergency unlocking device
Without LED switching conditions display
With LED switching conditions display (Only for 24 VAC/DC; not combinable in combination with -E1 und -T)

Us: 24 VAC

Us: 24 VDC

Us: 48 VAC Us: 110 VAC

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

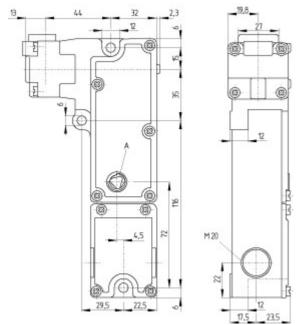
CCC certification (en) 896 kB, 16.08.2016

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

• Compensation for tolerances by means of rubber buffers



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

# H

# 101029968 - AZM190-B3/1X7,5



# 101029938 - AZM190-B3/2X15

 $\bullet$  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

· Especially for aluminium profiles



#### 103009443 - AZM190-B3V/2X15

- For very smal actuating radii in line with or at 90° 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

 $\bullet$  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 13.02.2019 - 14:49:13h Kasbase 3.3.0.F.64I