



## AZM 190-02/10RKN 230 VAC-M20 DISC

- 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

## Data

### Ordering data

Product type description	AZM 190-02/10RKN 230 VAC-M20 DISC
Article number (order number)	101155679
EAN (European Article Number)	4030661337012
eCl@ss number, version 12.0	27-27-26-03
eCl@ss number, version 11.0	27-27-26-03
eCl@ss number, version 9.0	27-27-26-03
ETIM number, version 7.0	EC002593
ETIM number, version 6.0	EC002593

### General data

Standards	BG-GS-ET-19 EN ISO 13849-1 EN ISO 14119 EN IEC 60947-5-1
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Coding level according to EN ISO 14119	Low
Working principle	electromechanical
Housing material	Glass-fibre, reinforced thermoplastic
Gross weight	585 g

### General data - Features

Number of actuating directions	4
Number of cable glands	2

### Safety classification

Standards	EN ISO 13849-1
Performance Level, up to	c
Category	1
B <sub>10D</sub> Normally-closed contact (NC)	2,000,000 Operations
Note	Electrical life on request.
B <sub>10D</sub> Normally-open contact (NO)	1,000,000 Operations
Note	at 10% I <sub>e</sub> and ohmic load
Mission time	20 Year(s)

### Safety classification - Fault exclusion

Please note:	Can be used when fault exclusion for dangerous damage to the 1-channel mechanism is permissible and sufficient protection against manipulation is guaranteed.
Performance Level, up to	d
Category	3
Note	for 2-channel use and with suitable logic unit.
Mission time	20 Year(s)

## Safety classification - Guard locking function

Performance Level, up to e

## Mechanical data

Mechanical life, minimum 1,000,000 Operations

Holding force  $F_{Zh}$  in accordance with EN ISO 14119 1,950 N

Holding force  $F_{max}$ , maximum 2,550 N

Latching force 20 N

Positive break force, minimum 20 N

Actuating speed, maximum 0.3 m/s

Mounting Screws

Type of the fixing screws 2x M5

## Mechanical data - Connection technique

Cable entry 2 x M20 x 1,5

Termination Screw terminals

Cable section, minimum 0.5 mm<sup>2</sup>

Cable section, maximum 1.5 mm<sup>2</sup>

Note (Cable section) All indications including the conductor ferrules.

## Mechanical data - Dimensions

Length of sensor 41 mm

Width of sensor 52 mm

Height of sensor 178 mm

## Ambient conditions

Degree of protection IP65  
IP67

Ambient temperature +0 ... +50 °C

Protection class II

### Ambient conditions - Insulation values

Rated insulation voltage  $U_i$  250 VAC

Rated impulse withstand  
voltage  $U_{i,imp}$  4 kV

### Electrical data

Thermal test current 4 A

Rated control voltage 230 VAC

Required rated short-circuit  
current 1,000 A

Electrical power consumption,  
maximum 8.5 W

Switching principle slow action, positive break NC contact

Switching frequency 1,200 /h

Material of the contacts,  
electrical Silver

### Electrical data - Magnet control

Magnet switch-on time 100 %

Test pulse duration,  
maximum 5 ms

Test pulse interval, minimum 50 ms

### Electrical data - Safety contacts

Voltage, Utilisation category  
AC-15 230 VAC

Current, Utilisation category  
AC-15 4 A

Voltage, Utilisation category  
DC-13 24 VDC

Current, Utilisation category 4 A  
DC-13

### Electrical data - Auxiliary contacts

Voltage, Utilisation category 230 VAC  
AC-15

Current, Utilisation category 4 A  
AC-15

Voltage, Utilisation category 24 VDC  
DC-13

Current, Utilisation category 4 A  
DC-13

### Other data

Note (applications) sliding safety guard  
removable guard  
hinged safety guard

### Scope of delivery

Scope of delivery Actuator must be ordered separately.

### Ordering code

Product type description:  
AZM190-(1)RK(2)(3)-(4)-(5)

(1)

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<b>02/01</b>	Magnet: 2 NC contacts; actuator: 1 NC contact
<b>02/02</b>	Magnet: 2 NC contacts; actuator: 2 NC contacts
<b>02/10</b>	Magnet: 2 NC contacts; actuator: 1 NO contact
<b>02/11</b>	Magnet: 2 NC contacts; actuator: 1 NC contact/1 NO contact
<b>11/01</b>	Magnet: 1 NC contact/1 NO contact; actuator: 1 NC contact
<b>11/02</b>	Magnet: 1 NC contact/1 NO contact; actuator: 2 NC contacts

<b>11/10</b>	Magnet: 1 NC contact/1 NO contact; actuator: 1 NO contact
<b>11/11</b>	Magnet: 1 NC contact/1 NO contact; actuator: 1 NC contact/1 NO contact
(2)	
<b>without</b>	Power to unlock
<b>A</b>	Power to lock
(3)	
<b>without</b>	With manual release on the cover side
<b>E0</b>	Without manual release
<b>E1</b>	With manual release from side (right)
<b>N</b>	Emergency release
<b>T</b>	Emergency exit
(4)	
<b>without</b>	without LED switching conditions display
<b>G</b>	With LED switching conditions display (for 24 V AC/DC only; cannot be combined with -E1 and -T)
(5)	
<b>24VAC</b>	Us: 24 VAC
<b>24 VDC</b>	Us: 24 VDC
<b>48VAC</b>	Us: 48 VAC
<b>110VAC</b>	Us: 110 VAC
<b>230VAC</b>	Us: 230 VAC

## Pictures

**Product picture (catalogue individual photo)**

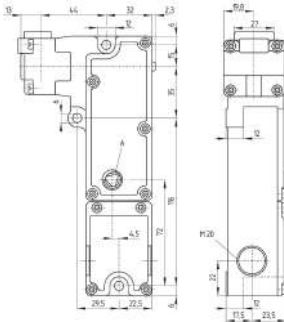


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| 619.5 kB | .jpg | 352.778 x 642.761 mm - 1000 x 1822 px - 72 dpi

| 82.1 kB | .png | 74.083 x 134.761 mm - 210 x 382 px - 72 dpi

## Dimensional drawing basic component



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| 109.5 kB | .ai | 210.002 x 297 mm - 595 x 841 px - 72 dpi

| 6.9 kB | .png | 74.083 x 83.256 mm - 210 x 236 px - 72 dpi

| 203.5 kB | .jpg | 352.778 x 396.522 mm - 1000 x 1124 px - 72 dpi

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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