



## AZM190-11/01RK-110VAC

- Manual release
- 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

Replacement article number	101029961
Product type description	AZM190-11/01RK-110VAC
Article number (order number)	131029961
EAN (European Article Number)	8905236105791
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

### Approvals - Standards

Certificates	TÜV cULus CCC
--------------	---------------------

## General data

Standards	BG-GS-ET-19 EN ISO 13849-1 EN ISO 14119 EN IEC 60947-5-1
Coding level according to EN ISO 14119	Low
Working principle	electromechanical
Housing material	Glass-fibre, reinforced thermoplastic
Gross weight	500 g

## General data - Features

Power to unlock	Yes
Manual release	Yes
Number of actuating directions	4
Number of auxiliary contacts	1 2
Number of safety contacts	1
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%  $I_e$  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

Note (Performance Level) Information for the safety classification of the guard locking function is documented in the "Operating instructions" or in the "Operation and mounting" instructions.

### 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 $U_{imp}$	4 kV

### Electrical data

Thermal test current	4 A
Rated control voltage	110 VAC
Required rated short-circuit current	1,000 A
Electrical power consumption, maximum	8.5 W
Switching element	NO contact, NC contact
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 DC-13	4 A

### Electrical data - Auxiliary 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 DC-13	4 A

### Other data

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

## Scope of delivery

Scope of delivery                      Actuator must be ordered separately.

## Note

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

## Ordering code

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

(1)

---

<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

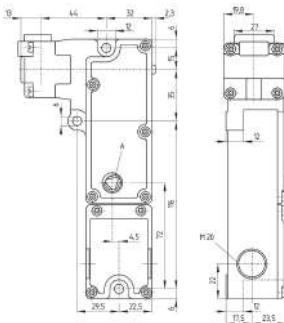
### Product picture (catalogue individual photo)



ID: kazm1f76

| 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

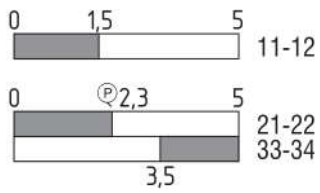
### Dimensional drawing basic component



ID: kazm1g26

| 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

## Switch travel diagram



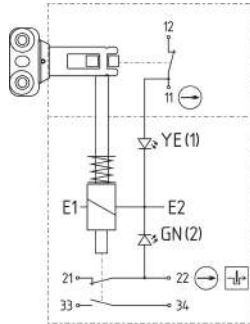
ID: kazm1s16

| 18.3 kB | .cdr |

| 2.1 kB | .png | 74.083 x 41.275 mm - 210 x 117 px - 72 dpi

| 63.1 kB | .jpg | 352.778 x 196.497 mm - 1000 x 557 px - 72 dpi

## Diagram



ID: kazm1k106

| 166.0 kB | .jpg | 352.778 x 462.139 mm - 1000 x 1310 px - 72 dpi

| 6.8 kB | .png | 74.083 x 97.014 mm - 210 x 275 px - 72 dpi

Schmersal India Pvt. Ltd., Plot No - G-7/1, Ranjangaon MIDC, Tal. - Shirur, Dist.- Pune 412 220

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.

Generated on: 11/12/2023, 7:19 am