



## AZM190-02/01RK-MPVD-230VAC-2860

- 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	103007270
Product type description	AZM190-02/01RK-MPVD-230VAC-2860
Article number (order number)	133007270
EAN (European Article Number)	8905236101205
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	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	617 g

## General data - Features

Power to unlock	Yes
Number of actuating directions	4
Number of safety contacts	3
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
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	230 VAC
Required rated short-circuit current	1,000 A
Electrical power consumption, maximum	8.5 W
Switching element	Opener (NC)
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.

## 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
----------------	--

G

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)

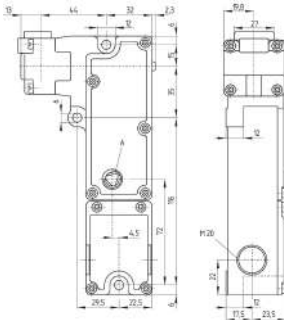


ID: kazm1f99

| 296.0 kB | .jpg | 352.425 x 378.178 mm - 999 x 1072 px - 72 dpi

| 40.5 kB | .png | 74.083 x 79.375 mm - 210 x 225 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

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, 8:10 am