



AZM190-02/10RKN-24VDC

- Emergency 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	101155681
Product type description	AZM190-02/10RKN-24VDC
Article number (order number)	131030175
EAN (European Article Number)	8905236105661
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
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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	480 g

General data - Features

Power to unlock	Yes
Emergency release	Yes
Number of actuating directions	4
Number of auxiliary contacts	1
Number of safety contacts	2
Number of cable glands	2

Safety classification

Standards	EN ISO 13849-1
Performance Level, up to	c
Category	1
B _{10D} Normally-closed contact (NC)	2,000,000 Operations
Note	Electrical life on request.
B _{10D} 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 ²
Cable section, maximum	1.5 mm ²
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	24 VDC
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, Silver
electrical

Electrical data - Magnet control

Magnet switch-on time 100 %
Test pulse duration, 5 ms
maximum
Test pulse interval, minimum 50 ms

Electrical data - Safety 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

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.

Note

Note (Manual release) front

Note (Emergency release) For cases of danger
Mounting only outside the guarded area

Ordering code

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

(1)

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

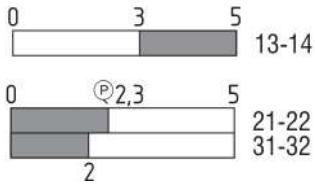
(2)

without	Power to unlock
A	Power to lock

(3)

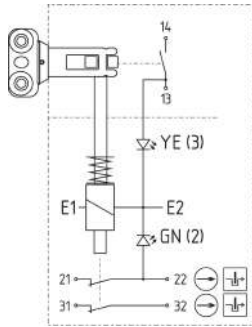
without	With manual release on the cover side
E0	Without manual release

Switch travel diagram



ID: kazm1s15
| 18.0 kB | .cdr |
| 1.9 kB | .png | 74.083 x 40.217 mm - 210 x 114 px - 72 dpi
| 59.2 kB | .jpg | 352.778 x 190.853 mm - 1000 x 541 px - 72 dpi

Diagram



ID: kazm1k107
| 158.2 kB | .jpg | 352.778 x 460.375 mm - 1000 x 1305 px - 72 dpi
| 6.7 kB | .png | 74.083 x 96.661 mm - 210 x 274 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.

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