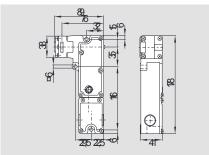
AZM 190





- · Interlock with protection against incorrect locking
- Thermoplastic enclosure
- · Manual or Emergency release
- Long life
- Power to unlock/power to lock principle
- · Slim design, particularly suitable for fitting on hinged doors, aluminium profiles and fencing
- Actuating head can be repositioned by 4 x 90°
- · Sealing mechanism to prevent the ingress of dirt
- 2 cable entries M20
- Wiring compartment
- · Holding force 1950 N

Technical data

Standards: IEC/EN 60947-5-1 BG-GS-ET-19

Enclosure: glass-fibre reinforced thermoplastic

Actuator and locking bolt: zinc-plated steel / zinc diecast

Protection class: IP67; Ordering suffix N: IP65

Contact material: silver Contact type:

change-over contact, double break, galvanically

separated contact bridges ⊕ IEC 60947-5-1 Switching principle:

slow action,

NC contact with positive break Connection: screw terminals,

solid or multi-strand lead Cable section: min. 0.5 mm², max. 2.5 mm²;

incl. conductor ferrules: max. 1.5 mm²

Cable entry: 2 x M20 U_{imp} : 4 kV Ui: 250 V 4 A Utilisation category: AC-15, DC-13 4 A / 230 VAC I_e/U_e: 4 A / 24 VDC Max. fuse rating: 4 A gG D-fuse

(DIN EN 60269-1) Positive break travel: 2 x 3.5 mm Positive break force: 20 N 100% ED Magnet: U_s: 24 VDC

24 VAC, 50/60 Hz 48 VAC, 50/60 Hz 110 VAC, 50/60 Hz 230 VAC, 50/60 Hz

Power consumption: max. 8.5 W Actuating speed: max. 20 m/min Max. actuating frequency: 1.200 s/h Ambient temperature: 0 °C ... +50 °C Mechanical life: 1 million operations 1950 N

Latching force:

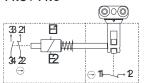
Classification: EN ISO 13849-1 Standards: B_{10d} NC (NC): 2.000.000 Mission time: 20 years

 $n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{}$ $B_{10d} \\$ $MTTF_d = \frac{1}{2}$ 0,1 x n_{op} t cycle

Contact variants

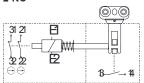
Power to unlock

1 NC 1 NO / 1 NC

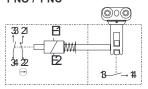


1 NO

2 NC

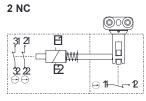


1 NO 1 NO / 1 NC



1 NC

20 N



Approvals





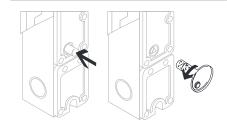


Ordering details

AZM 190-(1)RK(2)(3)-(4)

AZW 130-DIKK@@-#			
No.	Option	Description	
1		Magnet:	Actuator:
	11/01	1 NO / 1 NC	1 NC
	11/10	1 NO / 1 NC	1 NO
	02/10	2 NC	1 NO
	02/01	2 NC	1 NC
2		Power to unlock	
	Α	Power to lock	
3		Manual release	
	N	Emergency release	
4	24VDC	U _s 24 VDC	
	24VAC	U _s 24 VAC	
	48VAC	U _s 48 VAC	
	110VAC	U _s 110 VAC	
	230VAC	U _s 230 VAC	

Note



Emergency release (left)

- · For cases of danger
- · Mounting only within the guarded area

Manual release (right)

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

Note

Other product variants:

- for safety fences in aluminium profil systems
- · actuator with reduced mounting depth
- · preferably for inside mounting
- with emergency exit
- 4 monitoring contacts
- for left-hand and right-hand hinged guard doors

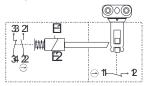
Solenoid interlocks

Contact variants

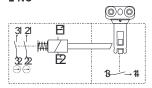
Power to lock

1 NC

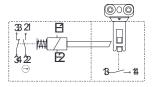
1 NO / 1 NC



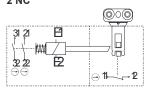
1 NO 2 NC



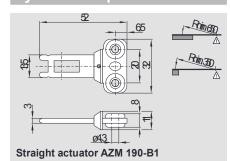
1 NO 1 NO / 1 NC

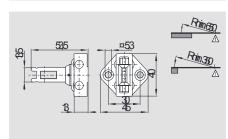


1 NC 2 NC

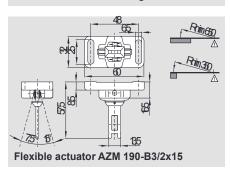


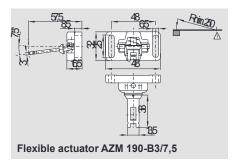
System components



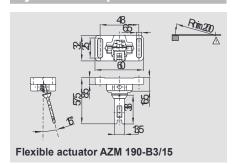


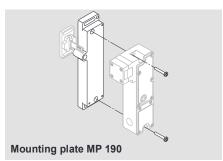
Actuator to front mounting AZM 190-B5

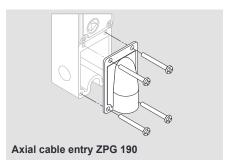


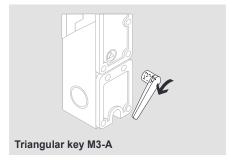


System components









Note

Contact symbols shown for the closed condition of the guard device.

At least one magnetic contact with positive break \ominus must be integrated in the safety circuit.

Interlocks with power to lock principle may only be used in special cases after a thorough evaluation of the accident risk, since the guarding device can immediately be opened on failure of the electrical power supply or when the main switch is opened.

Actuators and connector plugs must be ordered separately.

Ordering details

Straight actuator to front mounting Flexible actuator Flexible actuator AZM 190-B1 AZM 190-B5 AZM 190-B3/2x15 AZM 190-B3/7,5

Ordering details

Flexible actuator AZM 190-B3/15

Mounting plate MP 190
Axial cable entry ZPG 190
Triangular key M3-A 101144779
(M3 triangular key is included in delivery)

S SCHMERSAL 1-55