TECH BRIEF:
AZM150 SOLENOID INTERLOCK

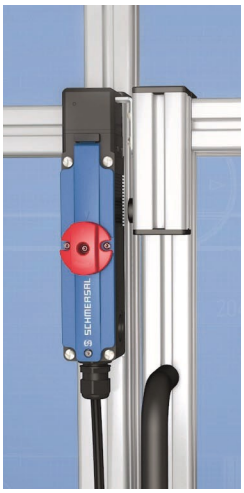
The AZM150 is an electromechanical solenoid interlock in a slim design.

Solenoid interlocks are designed for machine/work cells where access to a hazardous work area must be controlled until safe conditions exist. The AZM150 solenoid provides a 1500 N locking force to secure the machine guard until dangerous conditions, which may exist immediately after removal of power, have abated. The solenoid lock may be controlled by a time delay, motion detector, position sensor or other suitable component. Additionally, there is a 50 N latching force, keeping the guard door closed, even when not locked.

The solenoid is electromagnetically controlled, with power-to-lock and power-to-unlock versions. Power to unlock versions are available with a manual release, emergency release (N), or emergency exit (T).

The slim housing of the switch was designed to match the aluminum profiles used in many machine guard doors.

The AZM150 offers mounting flexibility - The head of the switch offers two actuator key entries (top and side) and can be rotated in 90-degree steps. The same switch can be used for left or right facing doors. The front cover locks the head in place, so rotation of the head can occur when installing wiring.



There are three standard actuator keys: The B1 standard key is flat, the B5 has a right angle for mounting. The B6 has a flexible mounting block, to accommodate actuator movement for small radius doors. A door handle system is planned. Actuator keys are ordered separately.

This series is also available with individually coded versions to deter the bypassing of locking mechanisms. The AZM150i uses 5 separate cams, to offer over 1000 possible combinations. This is coding level “high” to ISO 14119. The uniquely matching actuator is supplied with the switch, as standard actuators will not work. Schmersal is the only manufacturer which offers electromechanical solenoid interlocks with high coding.

AZM150-B1

AZM150-B5

AZM150-B6

manual release via separate key

emergency release (N) or emergency exit (T)

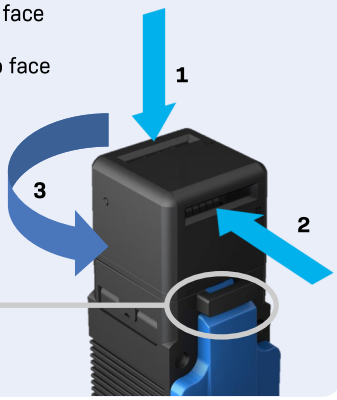
Actuator approach options

1: Top, parallel to face

2: Side, parallel to face

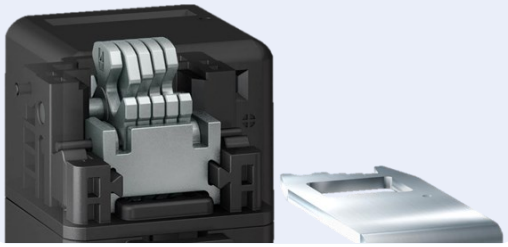
3: Head can be rotated in 90° steps, offering more options.

Head is locked into place by front cover.



Individual coding option

- Coding level “high” to ISO 14119
- Over 1000 possible combinations
- Matching key provided with switch



ORDERING DETAILS

AZM150SK-①R②③-④

① Contacts (actuator/solenoid configurations)

02/11	2 NC / 1 NC & 1 NO
11/11	1 NC & 1 NO / 1 NC & 1 NO
11/02	1 NC & 1 NO / 2 NC
02/02	2 NC / 2 NC

② Power to lock/unlock

blank	power to unlock
A	power to lock

③ Manual release

blank	manual release by separate key
N	Emergency release
T	Emergency exit

④ Voltage

24VDC
110VAC
230VAC

ACTUATORS (ordered separately)

AZM150-B1	straight key
AZM150-B5	right angled key
AZM150-B6	flexible mounting

Individually coded:

AZM150SK-①RI②③-④-⑤

① Contacts (actuator/solenoid configurations)

02/11	2 NC / 1 NC & 1 NO
11/11	1 NC & 1 NO / 1 NC & 1 NO
11/02	1 NC & 1 NO / 2 NC
02/02	2 NC / 2 NC

② Power to lock/unlock

blank	power to unlock
A	power to lock

③ Manual release

blank	manual release by separate key
N	Emergency release
T	Emergency exit

④ Voltage

24VDC
110VAC
230VAC

⑤ Matching actuator key (included)

B1	straight key
B5	right angled key
B6L	flexible mount, from left
B6R	flexible mount, from right

ACCESSORIES

SZ150-1	Lock out /tag out device
AZM KEY	manual by pass key (M5)

Controllers:

SRB-E-201LC
SRB-E-201ST
SRB-E-301ST
SRB-E-212ST
SRB-E-322ST
SRB-E-402ST
SRB-301MC

SCHMERSAL USA
15 Skyline Drive, Hawthorne, NY 10532
Tel: 914-347-4775, Fax: 914-347-1567
E-mail: salesusa@schmersal.com
www.schmersalusa.com

SCHMERSAL CANADA
29 Centennial Road, Unit 1, Orangeville ON L9W 1R1
Tel: 519-307-7540, Fax: 519-307-7543
E-Mail: salescanada@schmersal.com
www.schmersalcanada.ca

SCHMERSAL
THE DNA OF SAFETY