Overview
The AZM400 is a safety rated motorized bolt lock with an integrated radio frequency identification (RFID) based electronic safety sensor.

Operating Principle
The Aluminum die-cast body contains the RFID sensor and a motor-driven locking bolt, which fits into the hole of the actuator block with the matching RFID target. Once locked, the solenoid bolt provides a locking force of 10,000 N. The motorized AZM400 is a bi-stable system, thus in the event of a power failure the switch maintains the last locked status of the interlock.

In addition, the AZM400 uses RFID to detect the actuator and indicate a closed guard. This non-contact operating principle limits wear on components, tolerates misalignment, and offers the option of individual coding.

Intelligent locking
The AZM400 can detect if the locking bolt has been blocked from reaching a “locked” state. Before reporting a fault the switch will make a second autonomous attempt at locking, therefore reducing the number of error messages and protecting the device and machine against damage.

Safety Classification
The AZM400 series is compliant with North American and International standards such as cULus and CE. It’s two-channel input signal meets PLC Category4 (ISO 13849) or SIL3 (IEC 61508) for both its interlock and guard locking function. It is a Type 4 interlock per ISO 14119, with a high coding level with the individual coding option (I1 or I2).

Available Features and Options
- Visual diagnostics via 3 LEDs
- 1 or 2 auxiliary outputs for enhanced diagnostics
- M12 connector
- Manual override or emergency release knob for bolt retraction
- Electronic release via auxiliary power supply
- Individual coding options
  - I1: one time teaching process
  - I2: Re-teaching possible, 10 minute delay

Electric Manual Release (ST2...E)
The AZM400 is power-to-lock and power-to-unlock. It is available with an optional electric manual release making it possible to release the device in the event of a power failure or if the main supply is switched off. This version has an additional diagnostic output and is fitted with an additional 5-pole M12 connector to allow for connection to an auxiliary voltage supply.

Applications
- Machine Tools
- Packaging machinery
- Robot cells
- Printing machines
- Injection molding
- CNC Machines
- Assembly Equipment

Available Literature
- AZM400 Brochure, 10 pages

Ordering Details

<table>
<thead>
<tr>
<th>AZM400Z-ST-Ø-1P2P-Ø</th>
<th>AZM400Z-ST2-Ø-2P2P-Ø-E</th>
</tr>
</thead>
</table>

- Actuator Coding
  - blank Standard version (no coding)
  - I1 Individual coding (single)
  - I2 Individual coding (repeatable)

- Manual release
  - blank Manual release
  - T Emergency release knob

Regularly stocked models:
- AZM400Z-ST-1P2P-T
- AZM400Z-ST2-2P2P-E
- AZM400Z-ST2-2P2P-T-E
- AZM400Z-ST-I2-1P2P
- AZM400Z-ST-I2-1P2P-T
- AZM400Z-ST2-I2-2P2P-E

Accessories

Actuators
- AZM400-B1 Standard Actuator

Mounting bracket
- MS-AZM400 Metal spacers

Manual override key
- AZM KEY Triangle key (M5)

Connector cables
- Main cable (M12, 8 pole) 103007358 5 m length 103007359 10 m length
- Second cable for ST2 (M12, 5 pole) 103010816 5 m length 103010818 10 m length

Compatible Safety Controllers
- SRB-E-201ST SRB-E-322ST
- SRB-E-201ST SRB-E-402ST
- SRB-E-301ST SRB-301MC
- SRB-E-212ST

Bold part numbers are regularly stocked

Contact
Schmersal USA
15 Skyline Drive
Hawthorne, NY 10532
Tel: 914-347-4775
Fax: 914-347-1567
E-mail: salesusa@schmersal.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