

AZM300 More Than Just a Solenoid Interlock



Overview

The AZM300 is a combination of Solenoid latching keyed interlock and RFID Safety Sensor.

One look at the AZM300 and one cannot help but notice the distinctive external Maltese Cross shaped cam. This unique design allows the AZM300 to accept the actuator from any of three sides, providing mounting flexibility for either left- or right-hinged doors, or sliding guards. The solenoid locking force of 1,000 N keeps the guard door securely locked until dangerous conditions, which may exist even after removal of power, have abated.

The AZM300 also has integrated a radio frequency identification (RFID) sensor to detect the actuator and indicate a closed guard. This non-contact operating principle limits wear on components, tolerates misalignments, and offers the option of individual coding: The basic version of the sensor responds to any AZM300 target actuator; The "I1" version only accepts the coded ID number of the specific target actuator which is taught in during the first start-up; The "I2" version allows the teach-in process to be repeated, allowing replacement of a lost or damaged actuator.

The AZM300 features all of the diagnostic advantages of our Pulse Echo sensors. With continuous internal function tests and monitoring of the safety levels, the AZM300 can be wired in series without detriment to the safety levels. Diagnostic LED's on the sensor indicate various errors, misalignment and door open/closed signaling. For more advanced indication the AZM300 is also available with serial diagnostics.

The AZM300 housing is made of ECOLAB approved materials and is sealed to IP69K standards – a viable solution for use in hygienic or outdoor environments where high temperature and high pressure wash downs are typical.

The AZM300 also offers adjustable latching which provides a holding force of 5 or 11 lbs. The AZM300 actuator includes a dampener pad so that the switch can be used as a door stop for small to medium sized guard doors. Lockout/Tagout can be achieved by placing padlocks through the key of the actuator, preventing the guard to close.

The AZM300 series are cULus and CE approved to meet stringent North American and European Standards, and can be used in the highest level of machine safety circuits, PLe to ISO13849-1 and SIL 3 to IEC61508.

Features



- Multifunction Actuator
1. Operating key
 2. Dampener for door stop
 3. RFID Sensor target



External cam allows actuator to approach from three directions for mounting options. Same unit can be mounted for left or right hinged doors.



3 color LEDs for signaling:
Green = Power;
Yellow = Status
Red = (Flashing) Diagnostic error

M12, 8 pin connector
Solenoid bypass / manual release

Adjustable latching

The AZM300 provides an adjustable latching force to keep the guard door closed when the solenoid is unlocked. The Maltese Cross shaped cam that secures the actuator is also used to adjust latching force.

The position is indicated by the arrow, when the guard is open.

- Position "I": approx. 25 N (5.6 lbs)
- Position "II": approx. 50 N (11.2 lbs)



Applications

- Food processing machinery
- Pharmaceutical machinery
- Medical applications
- Outdoor equipment
- Material handling systems
- Packaging machinery
- Chemical processing equipment
- Robot cells
- Folding or brake presses
- Filter presses
- Punching machines
- Printing machines
- Injection molding
- Palletizers
- Packaging equipment

Available Literature



AZM300 Brochure
10 pages

Ordering Details

AZM300①-②-ST-③-④

- ① Monitoring
Z Guard locking monitored
B Actuator (RFID) monitored
- ② Actuator Coding
blank Standard version (no coding)
I1 Individual coding (single)
I2 Individual coding (multiple)
- ③ Outputs
1P2P Diagnostic output
SD2P Serial Diagnostic
- ④ Locking
blank Power to unlock (spring lock)
A Power to lock

Regularly stocked models:

- | | |
|--------------------|----------------------|
| AZM300Z-ST-1P2P | AZM300Z-ST-1P2P-A |
| AZM300Z-I2-ST-1P2P | AZM300Z-I2-ST-1P2P-A |
| AZM300Z-ST-SD2P | AZM300Z-ST-SD2P-A |
| AZM300B-ST-1P2P | AZM300B-ST-1P2P-A |

Accessories

Actuator

AZ/AZM300-B1 Standard Actuator

Mounting Plates

MP-AZ/AZM300-1 for sensor
MS-AZ/AZM300-B1 for actuator

Connector cables

- A-K8P-M12-S-G-5M-BK-1-X-A-4**
IP69K cable, 5 meter length
- A-K8P-M12-S-G-10M-BK-1-X-A-4**
IP69K cable, 10 meter length
- A-K8P-M12-S-G-5M-BK-1-X-A-2**
IP67 cable, 5 meter length
- A-K8P-M12-S-G-10M-BK-1-X-A-2**
IP67 cable, 10 meter length

Compatible Safety Controllers

- | | |
|--------------|------------|
| SRB-301MA | SRB-301MC |
| SRB-301ST-24 | SRB-301LCB |
| SRB-504ST | SRB-211ST |
| SRB-324ST | SRB-031MC |

Bold part numbers are regularly stocked

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