

1 Description

The Electromagnetic Lock (Maglock) series is a surface mounted magnetic lock assembly. Available in single and dual lock varieties and various sizes (force) designed for standard installation on most types of doors. The DS versions have built in Door Status Sensor.



SINGLE
10MAGLOCK1UL
DOUBLE
10MAGLOCK5UL



Door Position Switch

Door Switch SINGLE
10MAGLOCK1ULDS
Door Switch DOUBLE
10MAGLOCK5ULDS

2 Specifications

DESCRIPTION	10MAGLOCK1UL 10MAGLOCK1ULDS	10MAGLOCK5UL 10MAGLOCK5ULDS
Lock:	Single	Double
Input Voltage:	12 or 24 VDC	
Relay Rating:	1.0 A @ 24 VDC	
Current Rating:	500 mA @ 12 VDC / 300 mA @ 24 VDC	1 A @ 12 VDC / 600 mA @ 24 VDC
Dimensions:	10.47 x 2.87 x 1.58 in 266 x 73 x 40 mm	20.94 x 2.87 x 1.58 in 532 x 73 x 40 mm
Certification:	UL	
Operating Temperature:	14 °F to 131 °F (-10 °C to + 55 °C)	
Operating Humidity:	0 to 95%	

ATTENTION: This product must be powered from a UL listed, regulated, power limited, power supply!

NOTE:
• Installation location - indoor/dry

3 Precautions



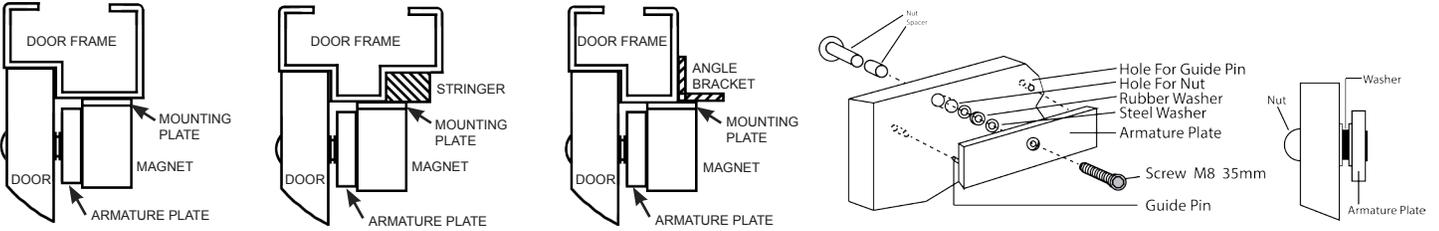
- Shut off all power before attempting any wiring procedures.
- Maintain a clean & safe environment when working in public areas.
- Constantly be aware of pedestrian traffic around the door area.
- Always stop pedestrian traffic through the doorway when performing tests that may result in unexpected reactions by the door.
- Always check placement of all wiring before powering up to insure moving door parts will not catch any wires and cause damage to equipment.
- Ensure compliance with all applicable safety standards and building codes upon completion of installation.

4 Installation - NOTES

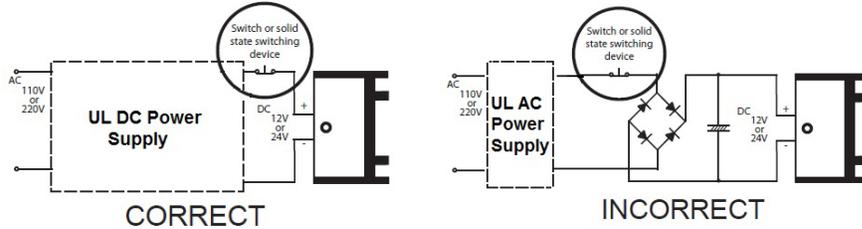
1. Handle the equipment with care. Damaging the mating surfaces of the magnet and armature plate may reduce locking efficiency.
2. The maglock mounts rigidly to the door frame. The armature plate mounts to the door with the hardware provided. This allows the armature plate to pivot about its center to compensate for door wear and misalignment.
3. Template use must take place with the door in its normally closed position.
4. Add threadlocker to all screws before installing, and firmly tighten screws.

5 Installation - Mechanical & Electrical

TYPICAL INSTALLATION



NOTE: DO NOT over-tighten the armature plate. The rubber washer is designed to allow the armature plate to automatically adjust position for best mating position between the lock and armature plate.

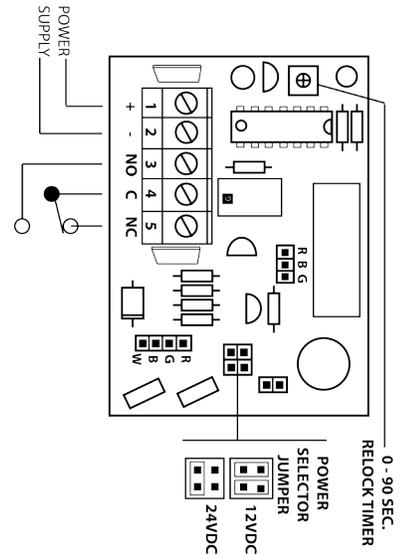


NOTE: The product must be powered from a UL listed, regulated, power limited, power supply.

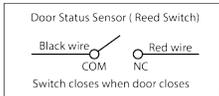
NOTE: If power switch is not wired between DC source voltage (+) and magnet, it will take a longer time to de-energize the magnet simulating residual magnetism.

CAUTION: Observe proper circuit board orientation!

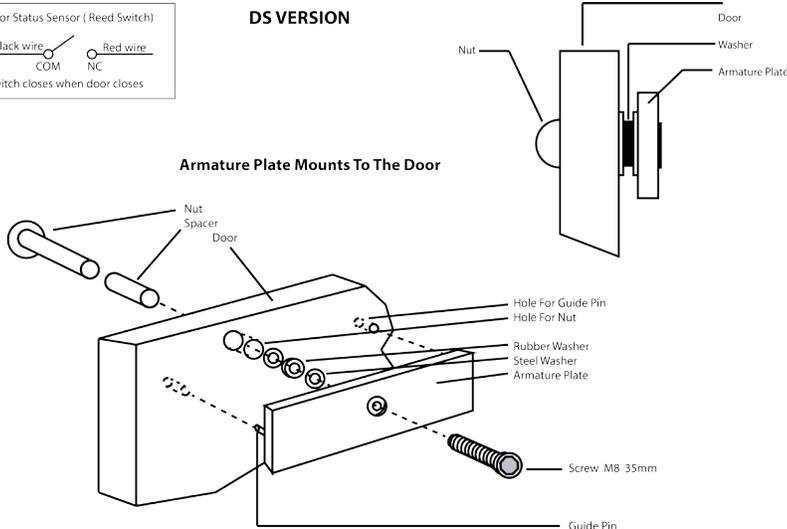
1. 12 VDC INPUT
 - A. Required power: See Specifications on page one.
 - B. Connect positive (+) lead from a 12 VDC power source to Terminal 1.
 - C. Connect negative (-) lead from a 12 VDC power source to Terminal 2.
 - D. Check jumper for 12 VDC operation.
2. 24 VDC INPUT
 - A. Required power. See Specifications on page one.
 - B. Connect positive (+) lead from a 24 VDC power source to Terminal 1.
 - C. Connect negative (-) lead from a 24 VDC power source to Terminal 2.
 - D. Check jumper for 24 VDC operation.
3. LOCK STATUS SWITCH CONTACTS (SPDT)



1. Relay dry contacts are rated 1A at 24 VDC for safe operation, DO NOT exceed this rating.
2. If a NO switch is required, connect the wires from the system to Terminal 3 & Terminal 4.
3. If a NC switch is required, connect the wires from the system to Terminal 4 & Terminal 5.



DS VERSION



DS Series Magnetic Lock Wiring Instructions

Connect the positive (+) lead from the powersuource to the Black wire of the DOOR STATUS SENSOR SWITCH.

Connect the negative (-) lead from the power source to one end of the Light for door status.

Connect the red wire of the DOOR STATUS SENSOR SWITCH to the other end of the Light for door status.

Reed switch dry contacts are rated 0.5 Amp at 30VDC/AC for safe operation, do not exceed this rating.

