

600Lb. / 1200Lb. MAGNETIC LOCK

Installation Instructions



1. SPECIFICATIONS

	OE-MAG600LB	OE-MAG1200LB
Holding Force	Up to 600 Lbs. (272 kg)	Up to 1200 Lbs. (545 kg)
Voltage Input	12VDC / 24VDC	12VDC / 24VDC
Current Draw	480mA / 240mA	420mA / 210mA
Dimensions (Body)	9 7/8" W x 2 1/4" H x 1 1/8" D (250mm x 56mm x 29mm)	10 1/2" W x 3" H x 1 1/2" D (266mm x 76mm x 39mm)
Performance Level	<ul style="list-style-type: none"> - Destructive Attack: Level I - Line Security: Level I - Standby Power: Level I - Endurance: Level IV 	

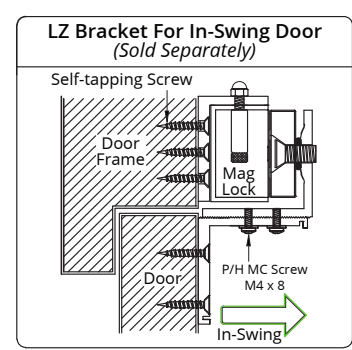
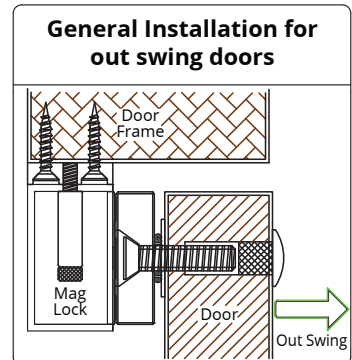
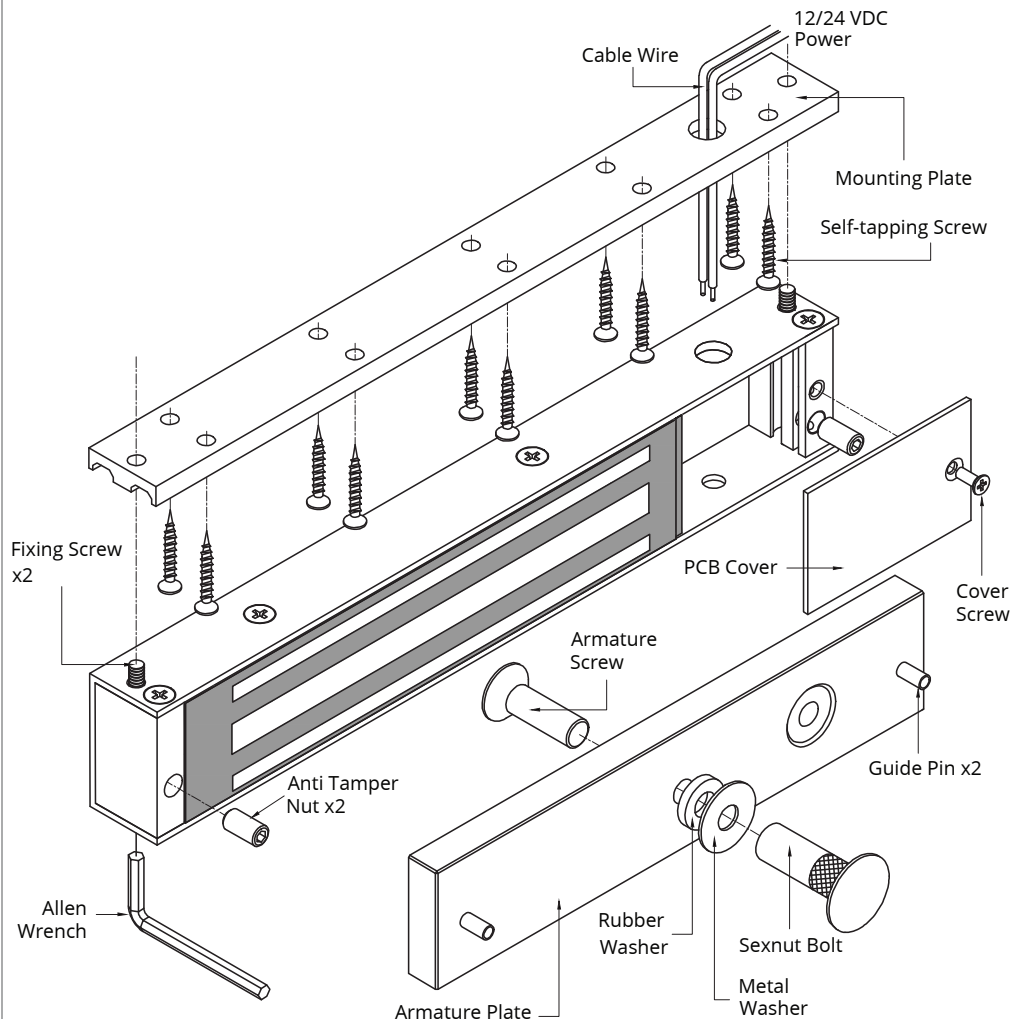


UL 1034 / UL 294
Standard for Burglary-Resistant
Electric Locking Mechanisms



ULC S533-15
Standard for Access and Egress

2. BASIC INSTALLATION CONCEPT & ACCESSORIES



3. GENERAL INSTALLATION STEPS AND MAINTAINANCE

1. Drill the armature plate holes in the door using the sticker template provided.
2. Attach the armature plate to the door with the hardware provided as per Figure 5 on page 3.
3. With the door closed, mark the door frame at the edge of the armature, in order to properly align the electromagnet to the armature.
4. Attach the mounting plate to the door frame using the self-tapping screws provided.

Align the mounting plate with the mark from Step 3.

5. Insert the wires through the hole in the mounting plate and into the electromagnet. Attach the electromagnet to the mounting plate with the Allen head fixing screw.
6. Screw in the anti-tamper nuts to prevent unauthorized access and make sure to fully tighten the fixing screw with an Allen Key.
7. Connect the power wires in accordance with NFPA 101.
8. Typical wiring method shall be in accordance with CSA C22.1, Canadian Electrical Code, Part I, Safety Standard for Electrical Installations, Section 32.
9. It is recommended to apply a light coating of silicon lubricant to the mating surfaces on a monthly basis to inhibit rust.

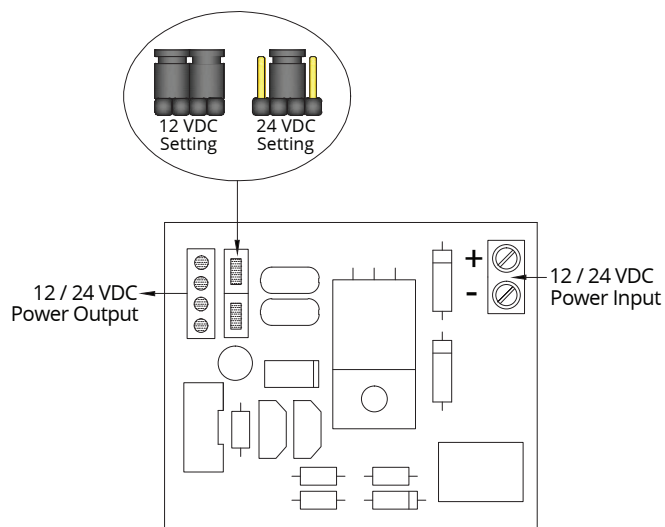
Notes:

Install in an Indoor Dry Location.

Use Caution when Changing Factory Default Setting.

4. TROUBLE SHOOTING

1. Door not locked:
 - Incorrect wiring or no power from power supply
2. Reduced holding force:
 - Poor contact of electromagnet and armature.
 - Be sure armature is loose enough so that it can fully contact electromagnet along its entire length
 - Mating surfaces are dirty or damaged.
 - Improper input voltage or wire size.



IMPORTANT!

Set the jumper position according to the power input before switching ON the power.

5. REGULAR INSTALLATION GUIDE FOR OUT SWING DOORS

Fig. 1 Installation Template

Fold the paper Template along the dotted line up to 90°.

Fig. 2

Close the door, position the maglock mounting location close to the door upper corner with a 3/8" (10mm) gap .

Fig. 3

Place the template against the door and frame and drill holes according to template indications.

Fig. 4

Drill 2 holes on Frame and 3 holes on door as indicated on the template.

Fig. 5

Install the Armature Plate to the door.

Fig. 6

This will allow the armature plate to pivot around the armature screw to compensate for door misalignment.

Fig. 7

Install the mounting plate on the door frame. Install the self tapping screws in the holes indicated on the template.

Fig. 8

Once position is correct, install other screws to permanently mount the plate; and drill the cable access hole.

Fig. 9

Use an Allen key wrench to unscrew the anti tamper nut and tighten the fixing screws on the mounting plate.

Fig. 10

Connect to power supply and test the unit.

6. IN-SWINGING DOOR INSTALLATION GUIDE USING OPTIONAL L & Z BRACKET

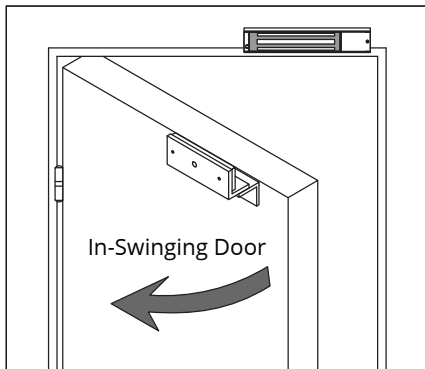
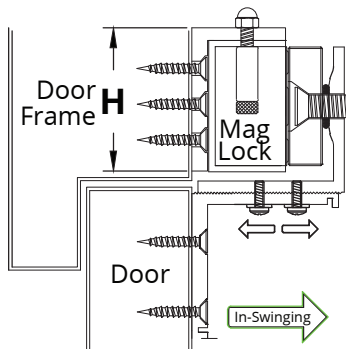


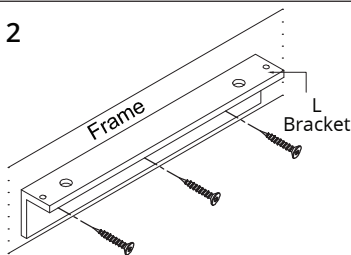
Fig. 1



The door frame requires a minimum height "H" value to accommodate the bracket.

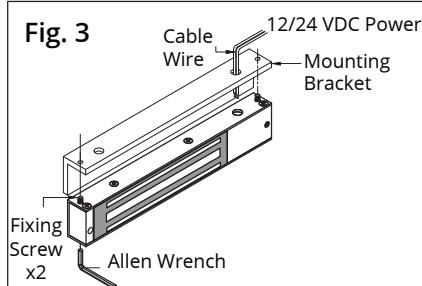
	600 LZ	1200 LZ
H	2 1/16" (52mm)	2 7/8" (73mm)

Fig. 2



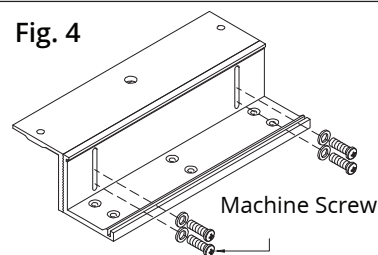
Position the L-Bracket close to the doors upper corner with a gap of 3/8" (10mm). Make sure the door closes.

Fig. 3



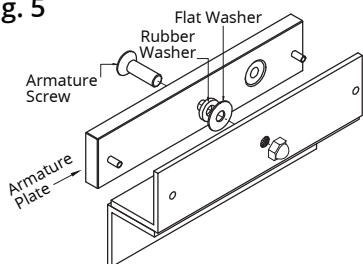
Tighten the maglock on the L-Bracket using the Allen Wrench.

Fig. 4



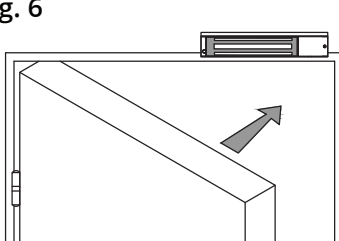
Assemble the Z-Bracket making sure the Z-Bracket can be adjusted freely, before tightening.

Fig. 5



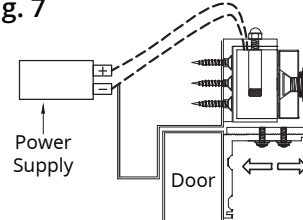
Install the armature plate on the Z-Bracket; using the screw provided.

Fig. 6



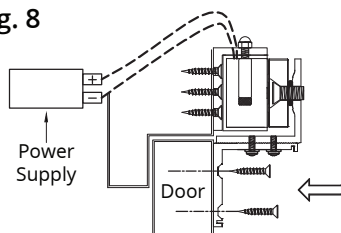
Close the door, and position the Z-Bracket by bringing the armature plate close to the maglock surface.

Fig. 7



Power up the mag lock, allow the armature plate and mag to engage, and adjust the position of the Z-Bracket and the door.

Fig. 8



Once the Z-Bracket is aligned properly, install the self-tapping screws to attach the Z-Bracket to the door.

Amps	DISTANCE IN FEET FROM POWER SUPPLY TO THE FURTHEST LOCK UNIT										
	25ft	50ft	75ft	100ft	150ft	200ft	250ft	300ft	400ft	500ft	1000ft
Minimum Wire Gauge (AWG) for 12VDC	18	18	18	18	18	16	16	14	14	12	
0.25	18	18	18	18	18	16	16	14	14	12	
0.50	18	18	18	16	16	14	12				
0.75	18	18	16	14	12	12					
1.00	18	16	14	14	12						
1.50	18	14	12	12							
2.00	16	14	12								
Amps	25ft	50ft	75ft	100ft	150ft	200ft	250ft	300ft	400ft	500ft	1000ft
Minimum Wire Gauge (AWG) for 24VDC	18	18	18	18	18	18	18	16	16	16	16
0.25	18	18	18	18	18	18	18	18	16	16	16
0.50	18	18	18	18	18	16	16	14	14	12	
0.75	18	18	18	18	16	14	14	12	12		
1.00	18	18	16	16	14	14	12	12			
1.50	18	18	16	14	14	14	12				
2.00	16	16	14	14	12						