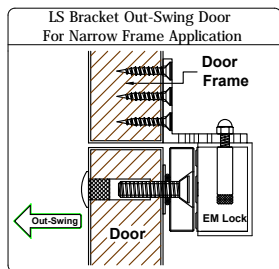
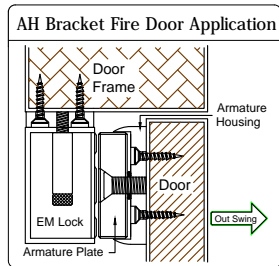


Electromagnetic Lock Installation Instruction Guide

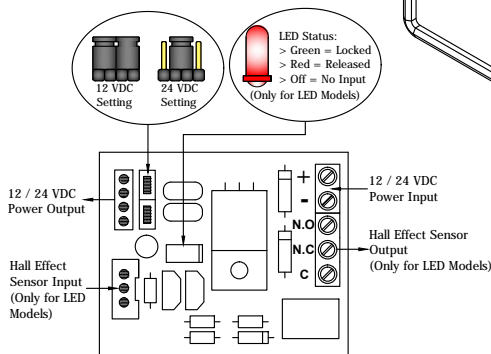
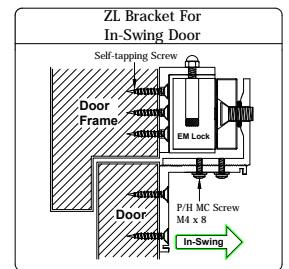
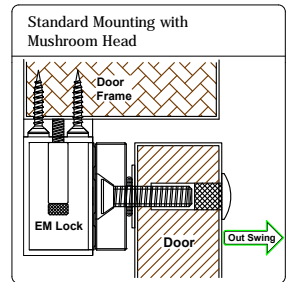
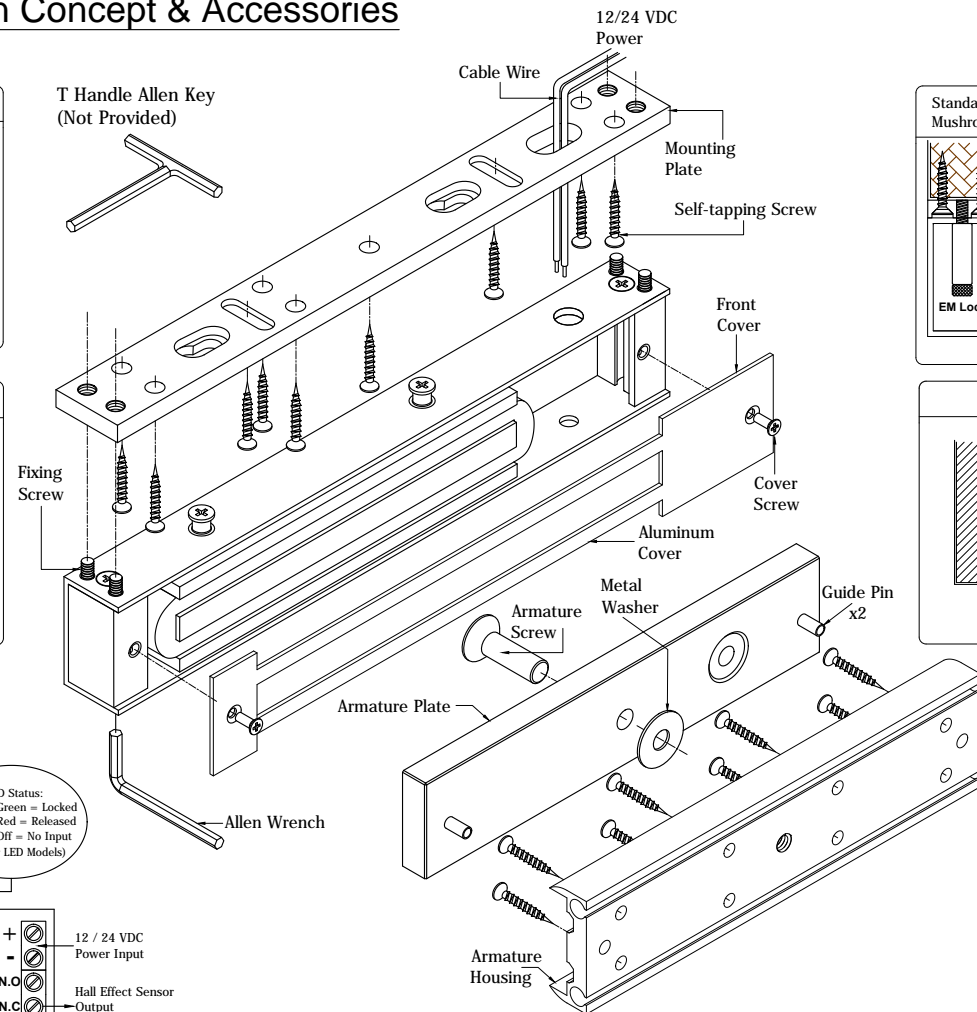
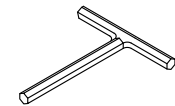
(Equipment to be use indoor dry location)

| Spec | Model | 600-LED-FR | 1200-LED-FR |
|--------------------|-------|---------------------------------|---------------------------------|
| Holding Force | | Up to 600lbs (272 kg) | Up to 1200lbs (545 kg) |
| Voltage Input | | 12VDC / 24VDC | 12VDC / 24VDC |
| Dimension Magnet | | (L)250 x (H)42.2 x (T)24.5 (mm) | (L)266 x (H)67.6 x (T)42.2 (mm) |
| Dimension A. Plate | | (L)180 x (H)38 x (T)11 (mm) | (L)185 x (H)61 x (T)16.5 (mm) |
| Current Draw | | 510mA / 285mA | 500mA / 265mA |

Basic Installation Concept & Accessories



T Handle Allen Key
(Not Provided)



Caution Against Changing Factory Applied Settings !

Set the jumper position according to the power input correctly before switch ON the power.

Trouble Shooting

- Sensor not functioning
 - Improper attachment of magnet body and armature plate
 - Modification of the PCB
- Door not locked
 - Incorrect wiring or no power from power supply
- Reduced holding force
 - Poor contact of electromagnet and armature.
 - Be sure armature is loose enough that it can fully contact electromagnet along the entire length.
 - Mating surface is dusty or damaged.
 - Improper input voltage or wire size.

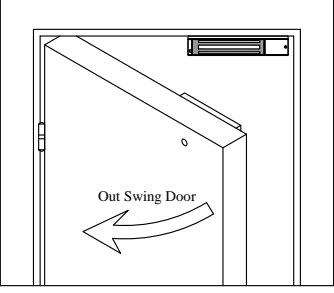
General Installation Steps & Maintenance

- Fold the installation template provided along the dotted line up to 90°.
- Close the door & position the template at the lock jamb side of the frame with a gap 25mm.
- Mark & drill holes according to template indications.
- Install the AH bracket & armature plate onto the door.
- Loosely tighten screw through the adjustable slot on mounting plate to the door frame as indicated on installation template.
- Make sure the mounting plate & armature align properly, then screw in the balance mounting screws.
- Use Allen wrench to tighten the fixing screws on the mounting plate. Pull cable wire through frame to lock housing.
- Connect the cable wire into the PCB terminal block as indicated then switch ON the power to test the EM Lock.
- The electromagnetic lock must be installed in accordance with the following:-
 - Life Safety Code, ANSI / NFPA 101.
 - Local Authority having jurisdiction.
 - Manufacturer's installation instructions provided with each unit.
 - The power supply units must be mounted inside the secured or protected area.
- It is recommended that to apply a light coat of silicon lubricant to the mating surface on a monthly basis to prevent rusty.

Remark: All drawing shown are for illustration purpose only.
Actual product may vary due to product enhancement.

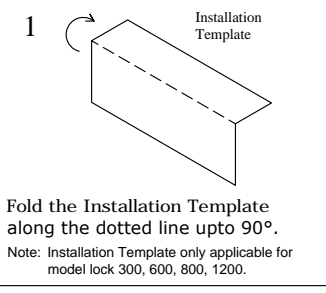
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Basic Bracket Installation Guide



Out Swing Door

1

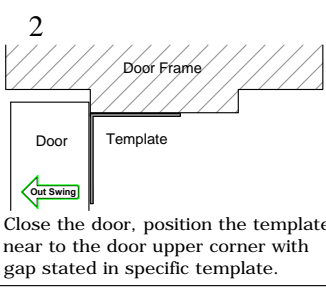


Installation Template

Fold the Installation Template along the dotted line upto 90°.

Note: Installation Template only applicable for model lock 300, 600, 800, 1200.

2



Door Frame

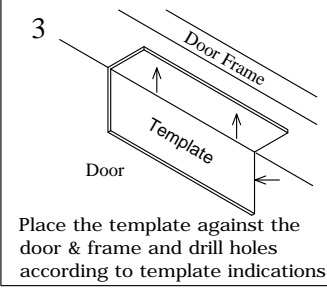
Door

Template

Out Swing

Close the door, position the template near to the door upper corner with gap stated in specific template.

3



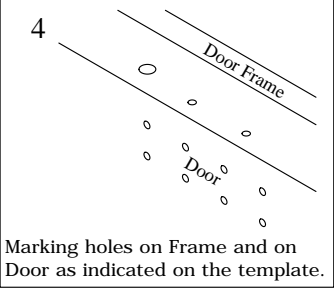
Door Frame

Door

Template

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

4

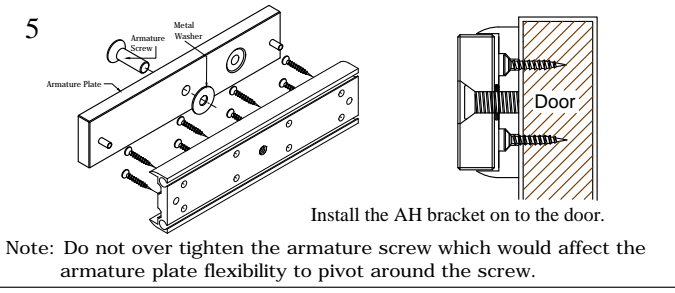


Door Frame

Door

Marking holes on Frame and on Door as indicated on the template.

5



Armature Screw

Metal Washer

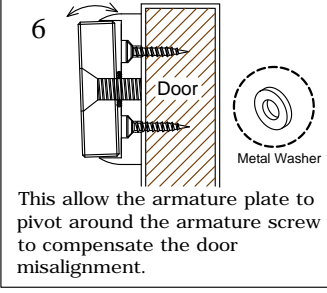
Armature Plate

Door

Install the AH bracket on to the door.

Note: Do not over tighten the armature screw which would affect the armature plate flexibility to pivot around the screw.

6

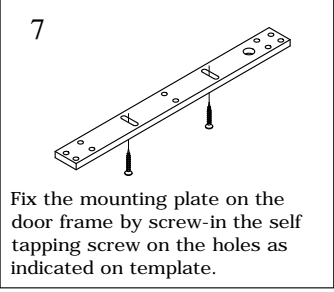


Door

Metal Washer

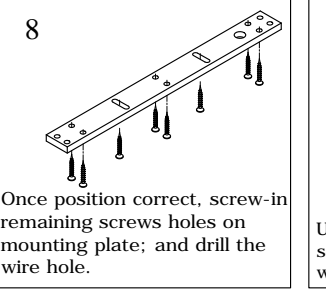
This allow the armature plate to pivot around the armature screw to compensate the door misalignment.

7



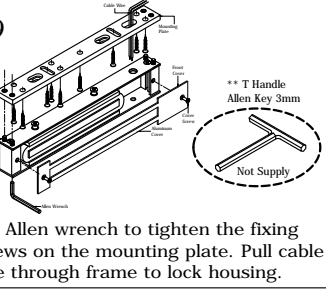
Fix the mounting plate on the door frame by screw-in the self tapping screw on the holes as indicated on template.

8



Once position correct, screw-in remaining screws holes on mounting plate; and drill the wire hole.

9

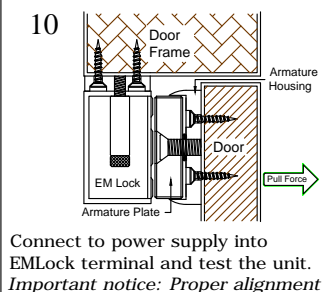


Use Allen wrench to tighten the fixing screws on the mounting plate. Pull cable wire through frame to lock housing.

** T Handle Allen Key 3mm

Not Supply

10



Door Frame

Armature Housing

Door

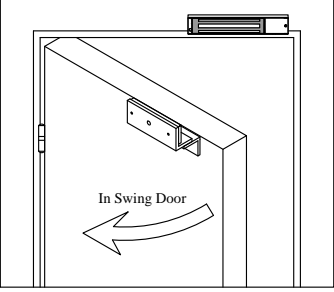
EM Lock

Armature Plate

Connect to power supply into EMlock terminal and test the unit.

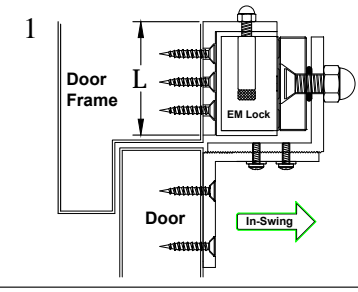
Important notice: Proper alignment between magnet & armature plate is important for the lock operate normally.

ZL Bracket for In-Swing Door Installation Guide



In Swing Door

1



Door Frame

EM Lock

Door

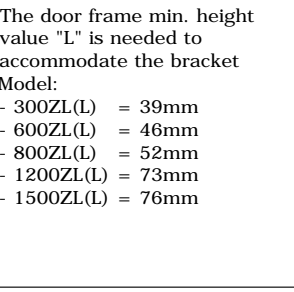
In-Swing

The door frame min. height value "L" is needed to accommodate the bracket

Model:

- 300ZL(L) = 39mm
- 600ZL(L) = 46mm
- 800ZL(L) = 52mm
- 1200ZL(L) = 73mm
- 1500ZL(L) = 76mm

2

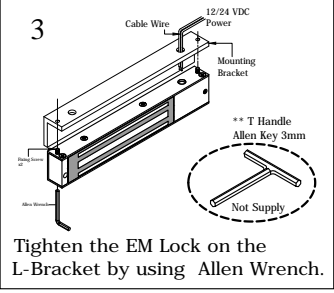


Frame

L-Bracket

Position the L-Bracket mounting location as close to the door upper corner with gap min.10mm; make sure the door is closable.

3



Cable Wire

12/24 VDC Power

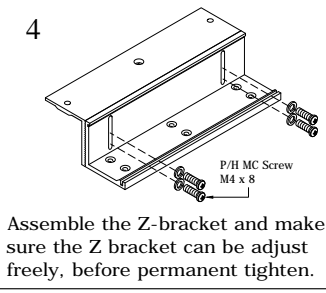
Mounting Bracket

** T Handle Allen Key 3mm

Not Supply

Tighten the EM Lock on the L-Bracket by using Allen Wrench.

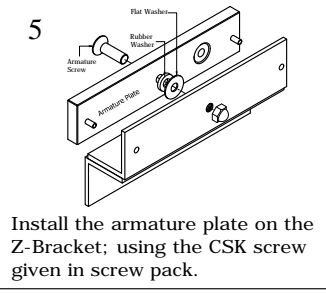
4



P/H MC Screw M4 x 8

Assemble the Z-bracket and make sure the Z bracket can be adjust freely, before permanent tighten.

5



Flat Washer

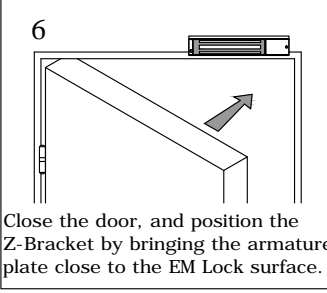
Rubber Washer

Armature Screw

Armature Plate

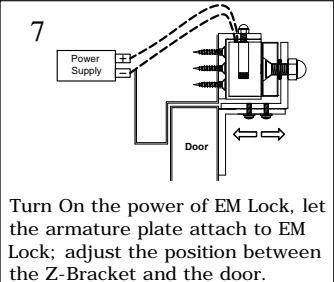
Install the armature plate on the Z-Bracket; using the CSK screw given in screw pack.

6



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

7

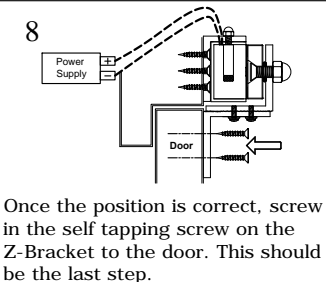


Power Supply

Door

Turn On the power of EM Lock, let the armature plate attach to EM Lock; adjust the position between the Z-Bracket and the door.

8



Power Supply

Door

Once the position is correct, screw in the self tapping screw on the Z-Bracket to the door. This should be the last step.

Distance in feet from power supply to the furthest lock unit

| Amps | 25f | 50f | 75f | 100f | 150f | 200f | 250f | 300f | 400f | 500f | 1000f |
|------|-----|-----|-----|------|------|------|------|------|------|------|-------|
| 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 | 25f | 50f | 75f | 100f | 150f | 200f | 250f | 300f | 400f | 500f | 1000f |
|------|-----|-----|-----|------|------|------|------|------|------|------|-------|
| 0.25 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 16 | 16 | 16 |
| 0.50 | 18 | 18 | 18 | 18 | 18 | 16 | 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 | 12 | | | | | |
| 2.00 | 16 | 16 | 14 | 14 | 12 | | | | | | |

Remark: Drawing shown maybe differ from actual product.

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