



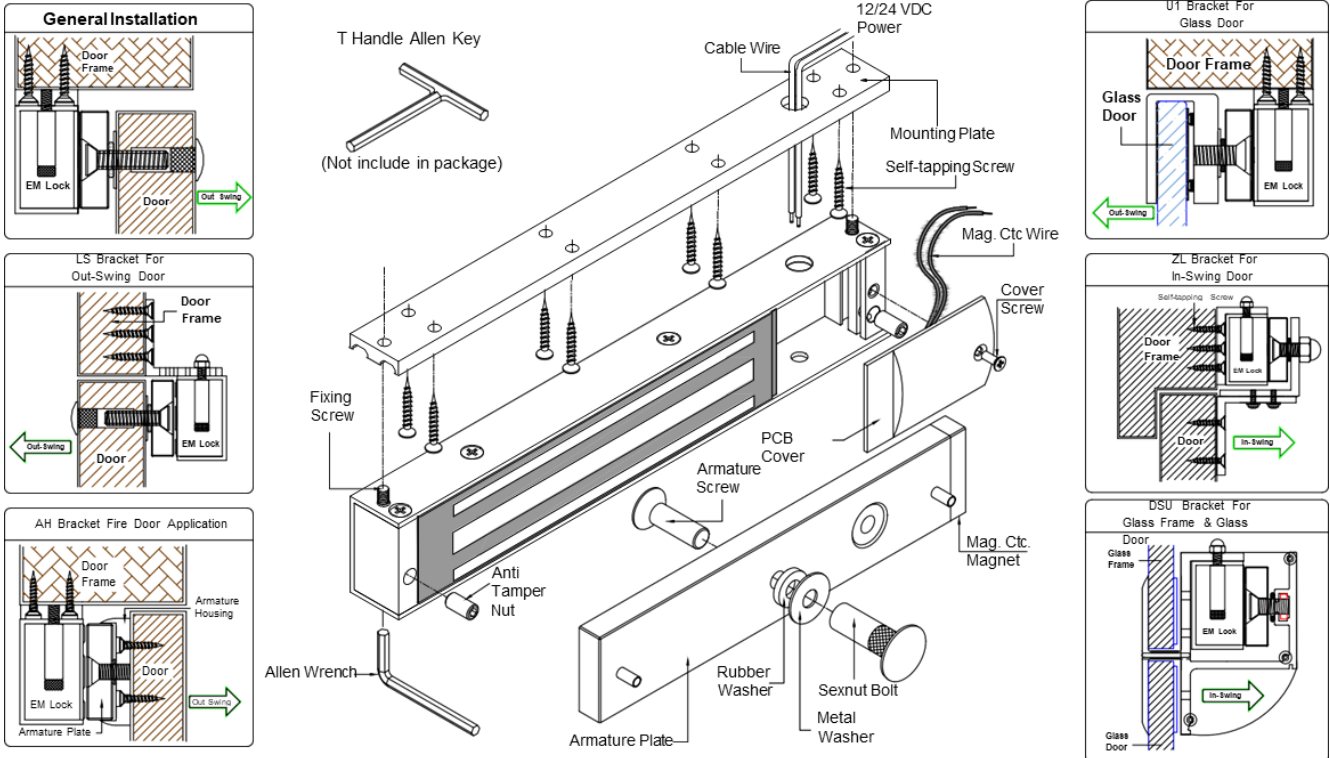
User Guide

Electromagnetic Lock 600lbs

KEM-S600M

Voltage Input:	12VDC/24VDC	Operation Temperature:	0~55°C (32~131°F)
Current Draw:	12V/510mA; 24V/285mA (±5%)	Operating Humidity:	0~95% (Non-condensing)
Holding Force:	Up to 600lbs (272kg)	Dimension (L x W D):	Magnet – 250 x 42 x 25mm Armature – 186 x 38 x 11mm

Basic Installation Guide & Accessories



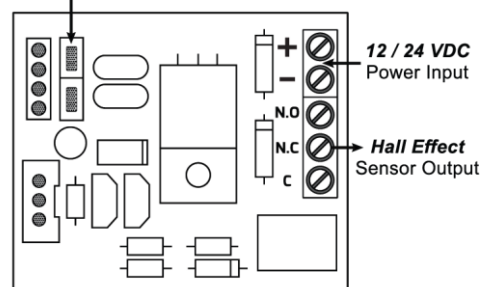
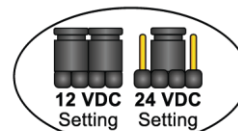
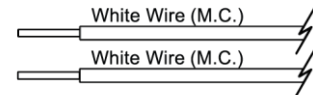
General Installation Steps & Maintenance

1. Fold the installation template provided along the dotted line up to 90°.
2. Close the door & position the template at the lock jamb side of the frame with a gap 10mm.
3. Mark & drill holes according to template indications.
4. Install the Armature Plate to the door.
5. Loosely tighten screw through the adjustable slot on mounting plate to the door frame as indicated on installation template.
6. Make sure the mounting plate & armature are well aligned, then screw in the balance mounting screws.
7. Use allen wrench to unscrew anti tamper nut and install the lock by tighten the fixing screws on the mounting plate. Pull cable wire through frame to lock housing.
8. Screw in the anti-tamper nuts to prevent unauthorized access and make sure to fully tighten the fixing screw with proper tool "T" Handle Allen Key.
9. Connect the power wires accordance with NFPA 101 & all wiring to be completed inside protect area.
10. Connect the magnetic contact wire to the door monitoring system; according to the system guides.
11. It is recommended that to apply a light coat of silicon lubricant to the mating surface on a monthly basis to prevent rust.

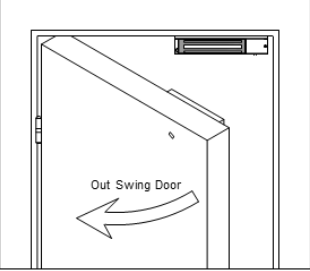
Troubleshooting

1. Sensor not functioning
 - Improper attachment of electromagnet and armature plate
 - Modification of the PCB
2. Door not locked
 - Incorrect wiring or no power from power supply
3. 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.
 - Contact surface is dusty or damaged.
 - Improper input voltage or wire size.

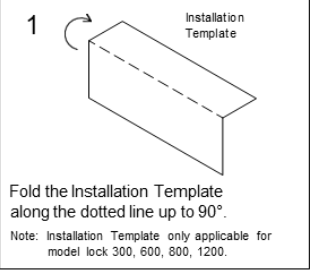
DOOR CONTACT SENSOR



Basic Bracket Installation Guide



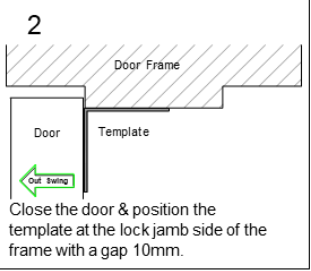
Out Swing Door



1 Installation Template

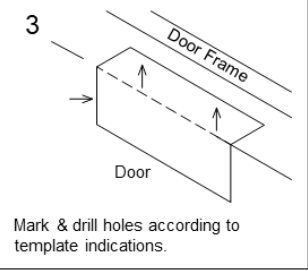
Fold the Installation Template along the dotted line up to 90°.

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



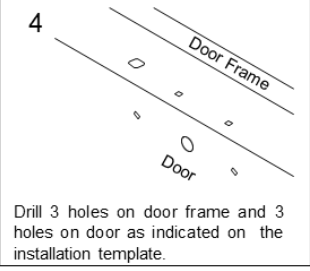
2 Door Frame Door Template

Close the door & position the template at the lock jamb side of the frame with a gap 10mm.



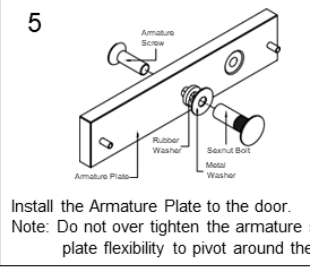
3 Door Frame Door

Mark & drill holes according to template indications.



4 Door Frame Door

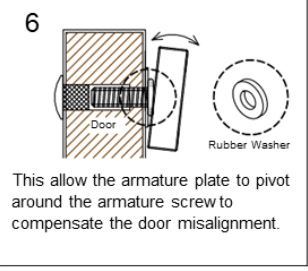
Drill 3 holes on door frame and 3 holes on door as indicated on the installation template.



5 Armature Plate Armature Screw Rubber Washer Socket Bolt Metal Washer

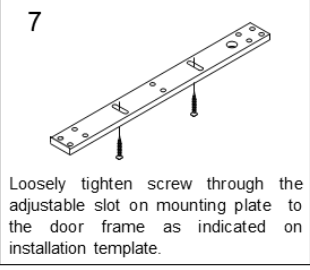
Install the Armature Plate to the door.

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



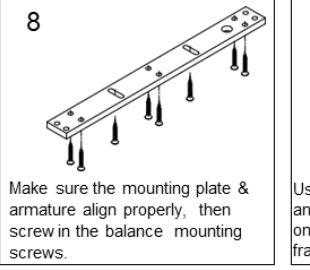
6 Door Door Rubber Washer

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



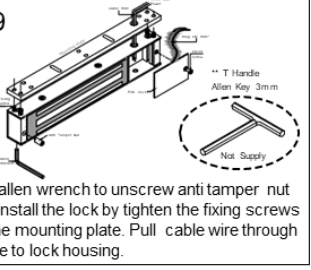
7

Loosely tighten screw through the adjustable slot on mounting plate to the door frame as indicated on installation template.



8

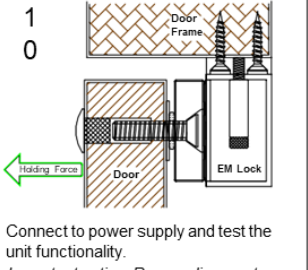
Make sure the mounting plate & armature align properly, then screw in the balance mounting screws.



9

Use allen wrench to unscrew anti tamper nut and install the lock by tighten the fixing screws on the mounting plate. Pull cable wire through frame to lock housing.

** T Handle Allen Key 3mm Not Supply

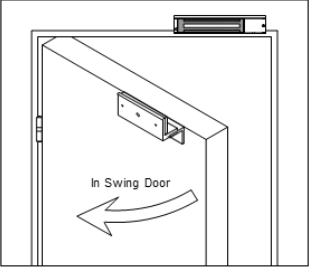


10 Door Frame Door EM Lock

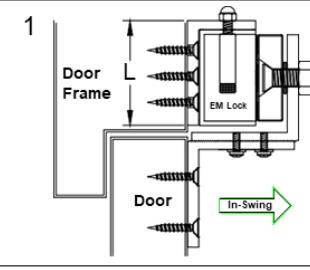
Connect to power supply and test the unit functionality.

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

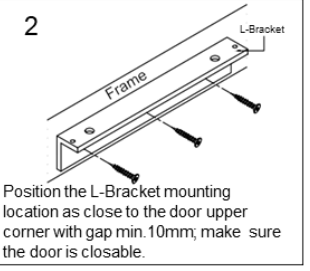


1 Door Frame EM Lock Door In-Swing

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

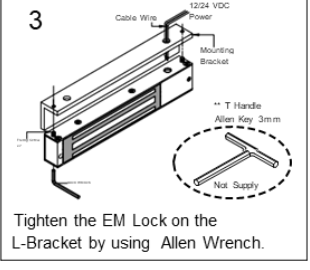
Model:

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



2 L-Bracket Frame

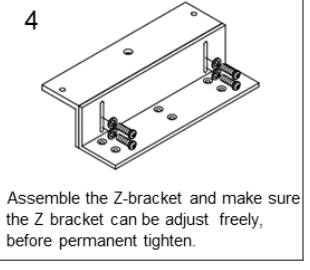
Position the L-Bracket mounting location as close to the door upper corner with gap min. 10mm; make sure the door is closable.



3 Cable Wire 12VDC Power Mounting Bracket EM Lock

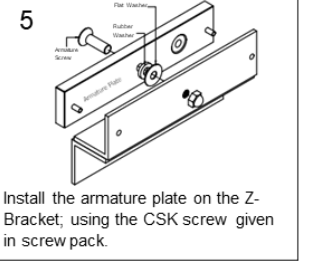
** T Handle Allen Key 3mm Not Supply

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



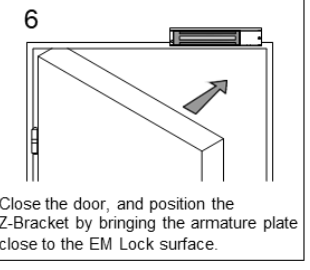
4

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



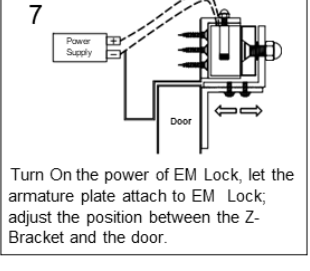
5

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



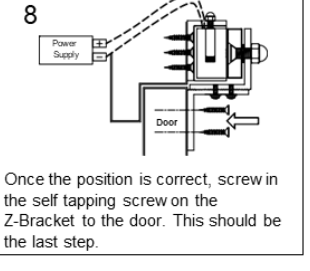
6

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



7 Power Supply EM Lock 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 EM Lock 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 metres from power supply to the furthest lock unit

Amps	8m	15m	23m	30m	46m	61m	76m	91m	122m	152m	305m
0.25	18	18	18	18	18	16	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	8m	15m	23m	30m	46m	61m	76m	91m	122m	152m	305m
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	12					
2.00	16	16	14	14	12						



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