Electromagnetic Lock Installation User Guide (In-door Models)

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Spec \ Model	MORTICE-300 w/o MAG. CTC.	MORTICE-300 c/w MAG. CTC.	MORTICE-600 w/o MAG. CTC.	MORTICE-600 c/w MAG. CTC.
Holding Force	Up to 300lbs (136 kg)	Up to 300lbs (136 kg)	Up to 600lbs (272 kg)	Up to 600lbs (272 kg)
Voltage Input	12VDC / 24VDC	12VDC / 24VDC	12VDC / 24VDC	12VDC / 24VDC
Current Draw	300mA / 150mA	300mA / 150mA	480mA / 240mA	480mA / 240mA
Dimension	(L)170 x (W)32 x (T)26 (mm)	(L)170 x (W)32 x (T)26 (mm)	(L)228 x (W)38 x (T)28 (mm)	(L)228 x (W)38 x (T)28 (mm)

Basic Installation Concept & Accessories

U-Plate · Armature Plate · Sex Bolt & Nuts · Sliding Door · Mounting Bracket · EM-300/600 Mortice Lock · Door Frame
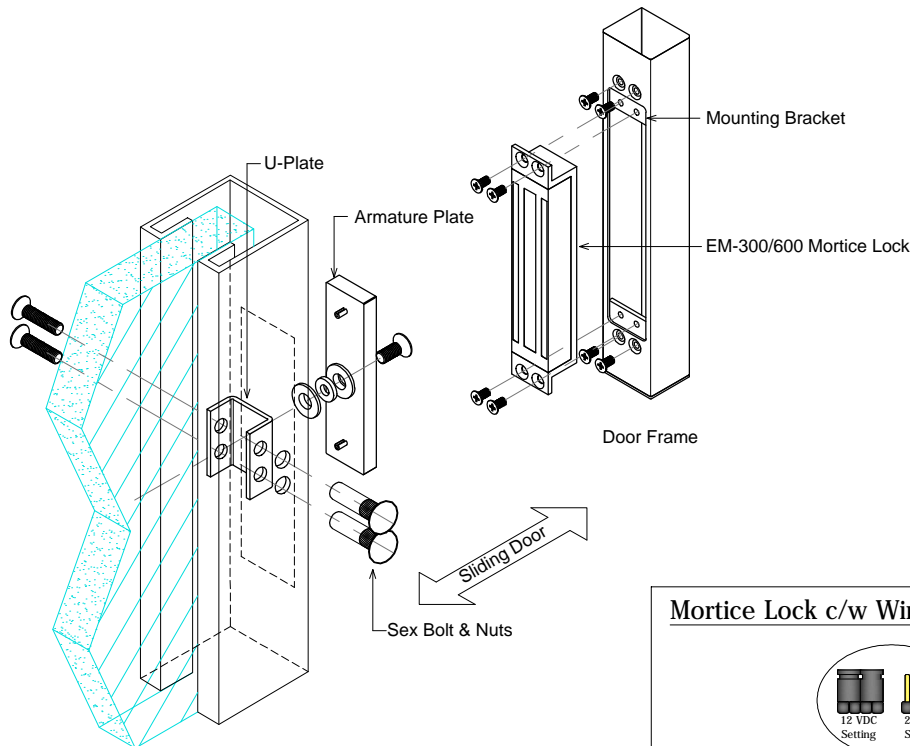
General Installation Steps & Maintainance

1. Open pocket hole for armature plate in the door frame using the sticker template provided.
2. Attach the armature plate to the door with the hardware provided as per the illustration.
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. Open a pocket hole for mortice lock in the door frame as per size of model lock.
5. Attach the mounting brackets to the door frame using the screws provided.
6. Insert the wires through the hole in the frame and into the electromagnet unit. Attach the electromagnet unit to the mounting brackets with the fixing screw.
7. Connect the power wires according to the instruction and test the system.
8. It is recommended that to apply a light coat of silicon lubricant to the mating surface on a monthly basis to prevent rust.
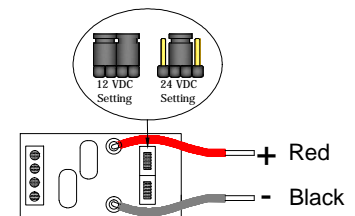
Trouble Shooting

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.
   - Mating surface is dusty or damaged.
   - Improper input voltage or wire size.
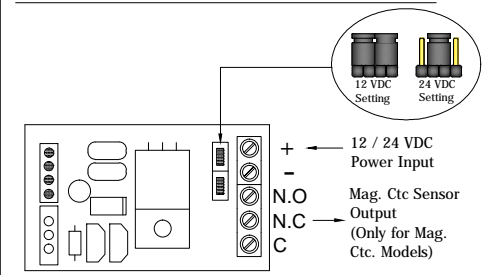
Note:
**Special model upon request.

Mortice Lock c/w Wiring Connection

12 VDC Setting · 24 VDC Setting

\+ Red
− Black

MAGNETIC CONTACT WIRING INSTRUCTION

Black	NC
White	NO
Orange	COMMON

**Mortice Lock c/w PCB Connection

12 VDC Setting · 24 VDC Setting

\+ − 12 / 24 VDC Power Input

N.O
N.C
C

Mag. Ctc Sensor Output (Only for Mag. Ctc. Models)

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