

User Manual for EM Locks

Dimensions&Parameters

Products Series	Dimension(mm)	Voltage	Current	Weight	Package
600Lbs Series	250L/500L*48W*27H	DC12/24V	500mA (+/-10%) / 250mA (+/-10%)	1.9KG/3.8KG	Single Door,12pcs/carton 405*275*140mm
600Lbs PRO Series	250L/500L*50W*27H	DC12/24V	500mA (+/-10%) / 250mA (+/-10%)	2.0KG/4.0KG	Double Door,6pcs/carton 525*210*150mm

Notice: All the locks support DC12V & DC24V switchable

Function List

Product	Anti-residual	Lock signal	Time delay	Alarm	PUSH	Door Signal
2 wires	✓	/	/	/	/	optional
2 wires & time delay	✓	/	✓	/	/	optional
5 wires & lock signal	✓	✓	/	/	/	optional
5 wires & time delay & lock signal	✓	✓	✓	/	/	optional
6 wires full function	✓	✓	✓	✓	✓	optional

Notice: Connect the PUSH to GND , lock will open.

Connection Drawing

2 Wires Connection Board

DC 12/24V optional connector, connect to lock body

2 Wires Connection Board with Time Delay

DC 12/24V optional connector, connect to lock body

5 Wires with Lock Status

Hall interface DC 12/24V optional connector, connect to lock body

Lock signal:
When the Hall interface detects the pull-in, the relay is triggered and the NO/NC/COM signal is output

Red/Green Indicator for power and lock status
Power on and pull in place: red light
Power on and Lock opened: green light

5 Wires with Time Delay&lock Status

Hall interface DC 12/24V optional connector, connect to lock body

Red/Green Indicator for power and lock status
Power on and pull in place: red light
Power on and Lock opened: green light

Time delay (0~30s)

Full function (lock status, time delay, alarm, unlock)

Hall interface DC 12/24V optional connector, connect to lock body

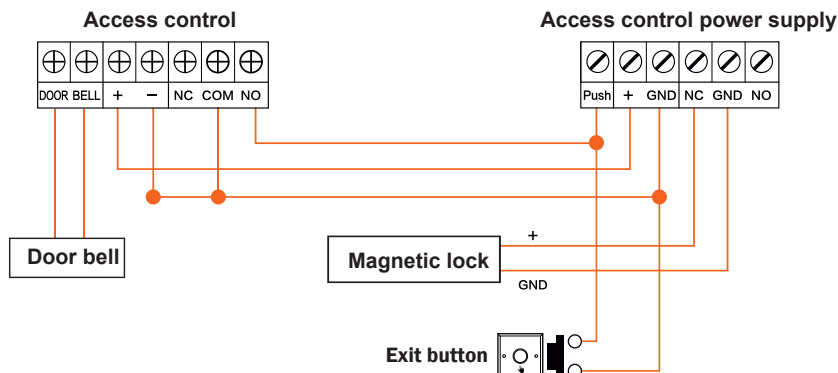
Alarm buzzer
if locked, it will make a beep, and if the door exceeds the delay setting time and has not been closed in place, a long beep will sound.

Short jumper cap to turn off the buzzer
The factory default is alarm off, if you need the alarm function, just take off the jumper

Red/Green Indicator for power and lock status
Power on and pull in place: red light
Power on and Lock opened: green light

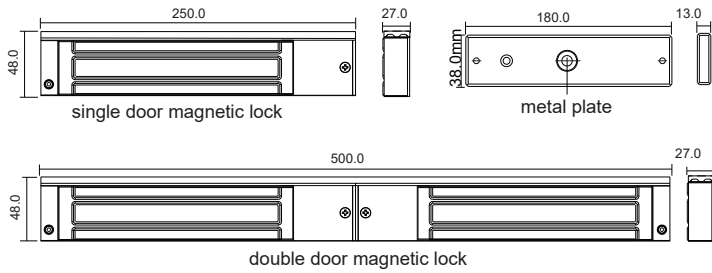
Time delay (0~30s)

Magnetic Lock Wiring Diagram

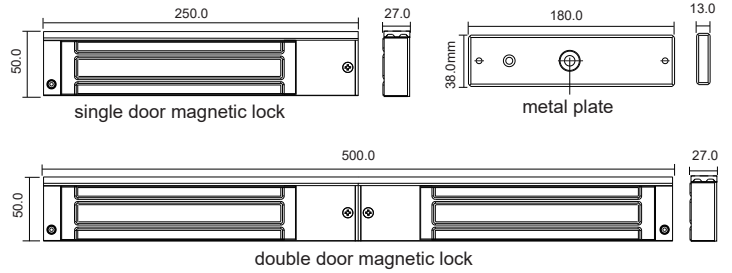


Dimension

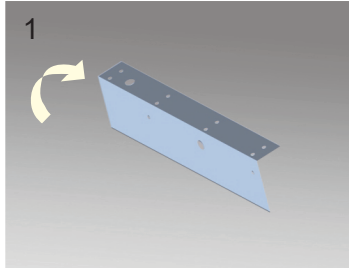
600Lbs Series size



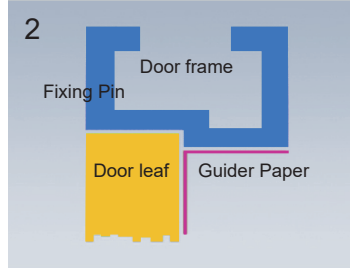
600Lbs PRO Series size



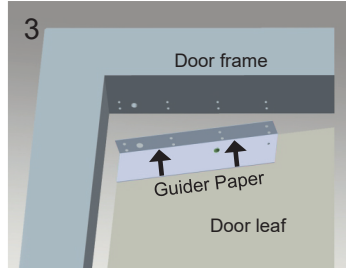
Installation Steps



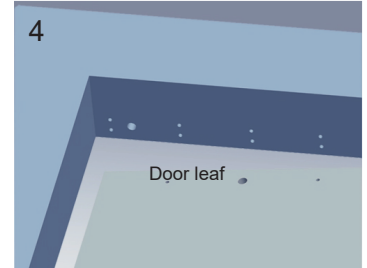
1 Fold the guide paper to 90°



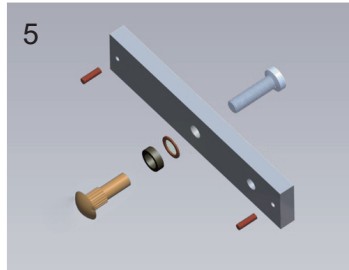
2 After close the door, put the guide paper close to the top side of the door frame



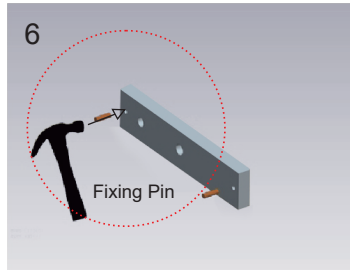
3 Mark screw positions on the door frame



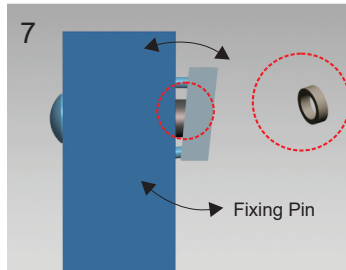
4 Drill holes according to your marked positions



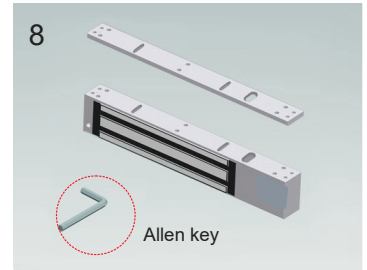
5 Make a combination based on the picture



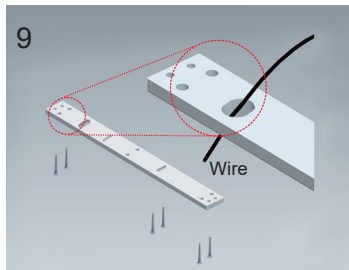
6 Knock the pin into the plate gently to avoid the plate moving.



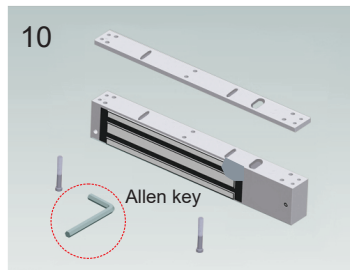
7 Rubber gasket makes the plate can be adjustable slightly and ensure the lock body and plate can be combined tightly to reach max holding force.



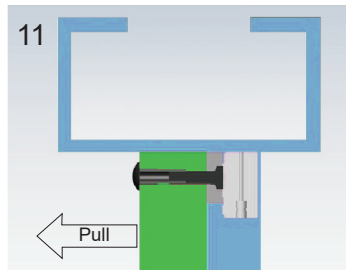
8 Remove the mounting plate from the lock body.



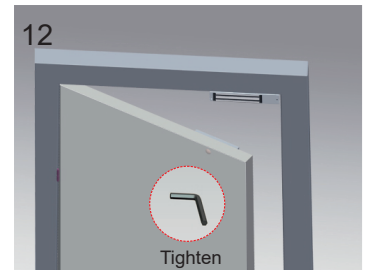
9 Fix the plate to the screw position which you marked before.



10 Fix the lock body to the mounting plate by Allen key



11 Open the door to test the holding force. Adjust the gap between plate and Magnetic lock surface by tighten the plate or increase & decrease the rubber gasket.

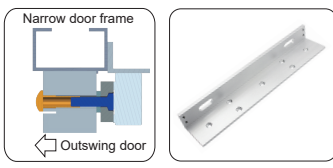


12 Tighten the tamper screw after making sure all installation steps are correct and work well.

Optional Bracket Installation

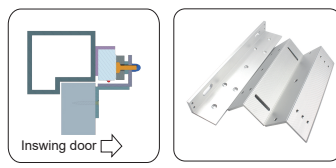
L bracket

When the door frame is narrow, L bracket is needed.



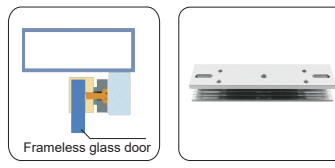
ZL bracket

For inward opening door, ZL bracket is needed.



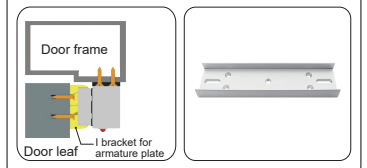
U bracket

For frameless glass door, U bracket is needed (suitable for 10-12mm thick glass door).



I Bracket for armature plate

When the door leaf is too thick for screws, I bracket is helpful.



Notice

1. When installing the armature plate, please do not tighten the screws too tightly, but keep the rubber gasket with proper elasticity, so that the armature plate could automatically adjust to correct position and be sucked tighter with the lock body.
2. When wiring, please check the lock body wire is connected to the 12V or 24V position on the PCB. You could choose to use power supply of 12VDC or 24VDC output for the lock via switching wiring the lock body to the corresponding position 12V or 24V.
3. The magnetic lock uses the principle of generating magnetic flux from an energized coil. Therefore, the heating of the magnetic lock coil is normal, and it is normal at 45°C±10%.