Magnetic Lock (500kg)

CE | ETS Germany | EMC tested | MA

Specification

| Model	Size(unit:mm)	Voltage	Current	Holding Force	Signal Output	Door
YM-500	265Lx67Wx39H	12/24VDC	12V/420mA 24V/210mA	500kg(1200Lbs)	No	Single Door
YM-500D	530Lx67Wx39H	12/24VDC	12V/420mAx2 24V/210mAx2	500kgx2(1200Lbsx2)	No	Double Door
YM-500(LED)	265Lx67Wx39H	12/24VDC	12V/420mA 24V/210mA	500kg(1200Lbs)	Yes	Single Door
YM-500D(LED)	530Lx67Wx39H	12/24VDC	12V/420mAx2 24V/210mAx2	500kgx2(1200Lbsx2)	Yes	Double Door
YM-500T(LED)	265Lx67Wx39H	12/24VDC	12V/420mA 24V/210mA	500kg(1200Lbs)	Yes	Single Door
YM-500TD(LED)	530Lx67Wx39H	12/24VDC	12V/420mAx2 24V/210mAx2	500kgx2(1200Lbsx2)	Yes	Double Door
YM-500BZ	265Lx67Wx39H	12/24VDC	12V/420mA 24V/210mA	500kg(1200Lbs)	Yes	Single Door
YM-500DBZ	530Lx67Wx39H	12/24VDC	12V/480mAx2 24V/240mAx2	500kgx2(1200Lbsx2)	Yes	Double Door

Diagram (unit:mm)
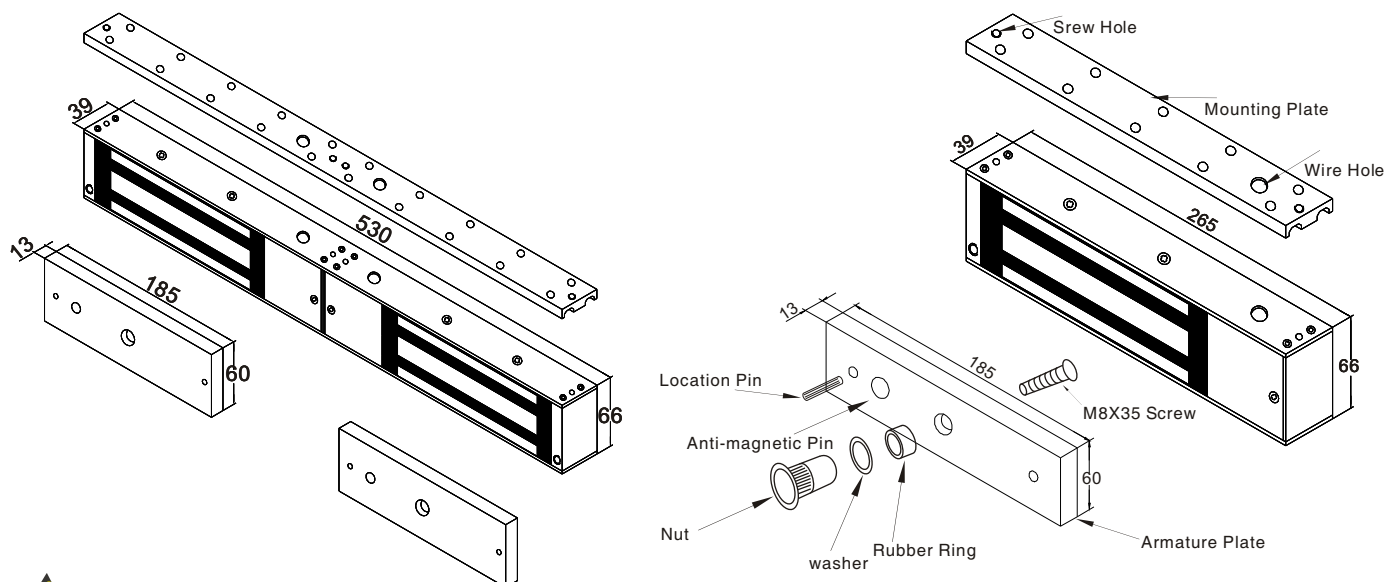
⚠ **Cautions:**

A. The screw of armature plate should not be fixed too tight. Proper elasticity should be guaranteed for the rubber ring so that the armature plate can adjust itself to the appropriate position.

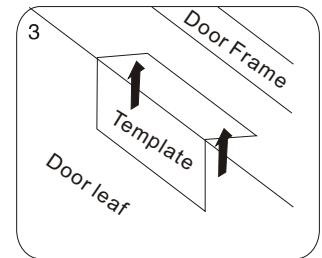B. Check the jumper's position before connecting. Figure out it represents 12VDC or 24VDC.

Steps

**1** Template

Fold the plate to 90°.
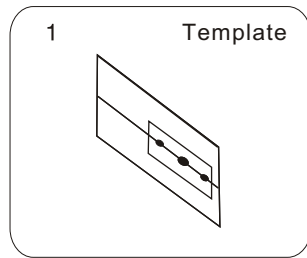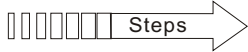
2 Door Frame
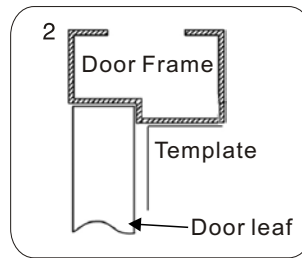
Template

Door leaf

Close the door first, then place the upper side of template on door frame, while adjust the left side next to the door leaf.

3 Door Frame

Template

Door leaf

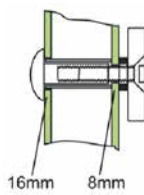Mark screw positions of armature plate and magnetic lock on door leaf and door frame respectively.

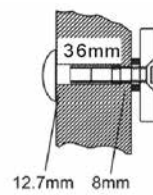**4** Door leaf
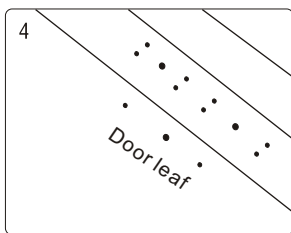
Drill holes based on the marked positions.
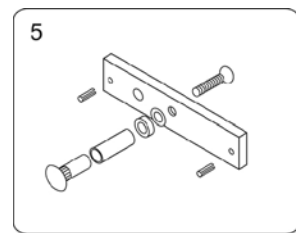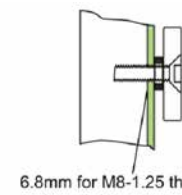
5

Make a combination based on the picture.

Hollow Metal Door

16mm   8mm

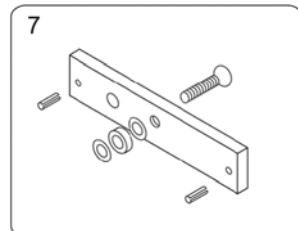Drill a hole
Inside: Diameter is 8mm
Outside: Diameter is16mm

Wooden Door

36mm

12.7mm   8mm

Drill a hole
Inside: Diameter is 8mm
Outside: Diameter is 12.7mm

Metal Surface Door
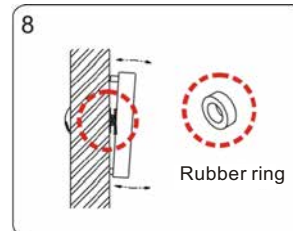
6.8mm for M8-1.25 thread

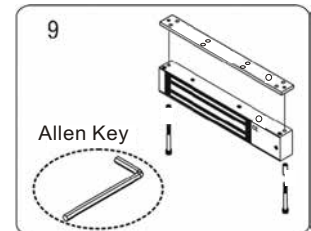Inside:Drill a hole diameter is 8mm folding the plastic straight pin

6 Setpin
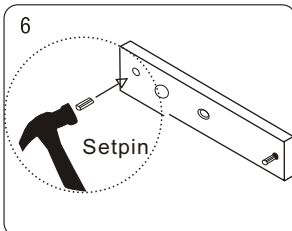
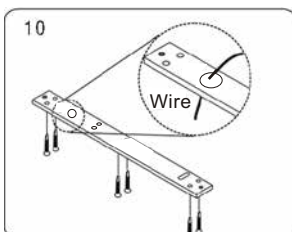Strike the pin into the armature plate slightly (to avoid movement).

7

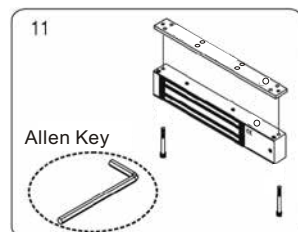Make a combination based on the picture(add washer accordingly).The rubber ring must be added.

8 Rubber ring

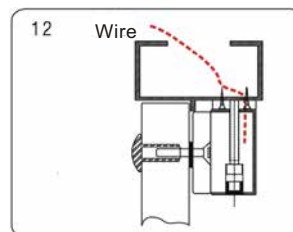Place the rubber ring between armature plate and door leaf.

9 Allen Key

Use Allen key to remove the mounting plate from lock body.

10 Wire

Fix the mounting plate on the door frame according to the holes drilled earlier.

11 Allen Key

Use Allen key to screw the lock body on the mounting plate.

12 Wire

Close the door to test holding force. The angle between armature plate and magnetic lock can be adjusted by adding or reducing washers.

13 Screw door
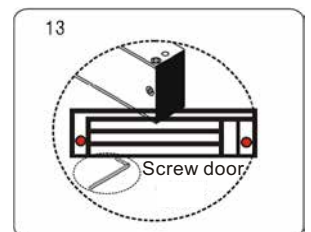
After all the appropriate procedures, the holding force can be maximized. Finally, fix the tamper screw.

Bracket Installation

Different brackets are available according to different types of doors. For example, narrow door , frameless glass door and inward opening door.
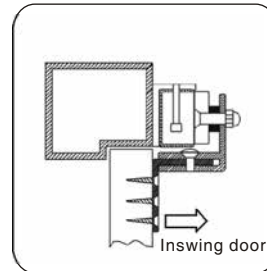
L Bracket-For outward opening door

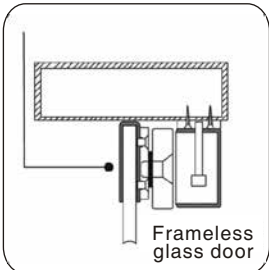When the door frame thickness is less than 42mm, L bracket is needed.

Door Frame

Outswing door
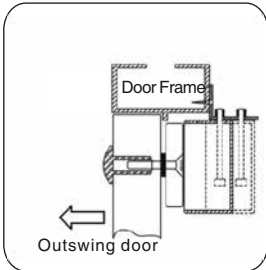
ZL Bracket-For inward opening door

For inward opening door, ZL bracket is needed.

Inswing door

U Bracket

For the frameless glass door. U bracket is needed.
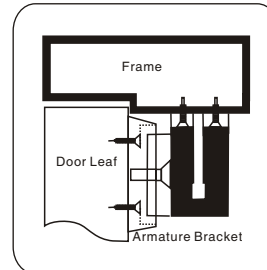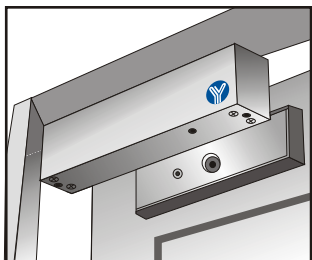
Frameless glass door

I Bracket for armature plate

When the door frame is too thick, I bracket is needed.

Frame

Door Leaf
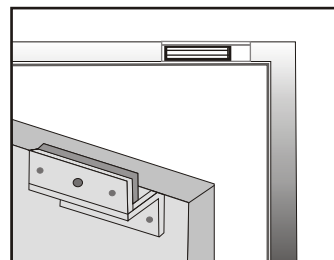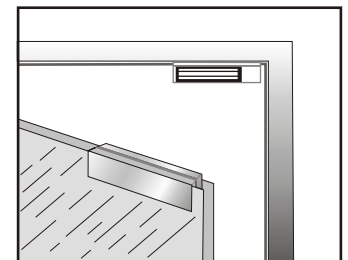
Armature Bracket

Installation Instruction

Demonstration of I Bracket Installation
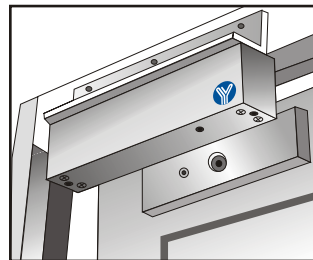
Demonstration of L Bracket Installation

Demonstration of ZL Bracket Installation

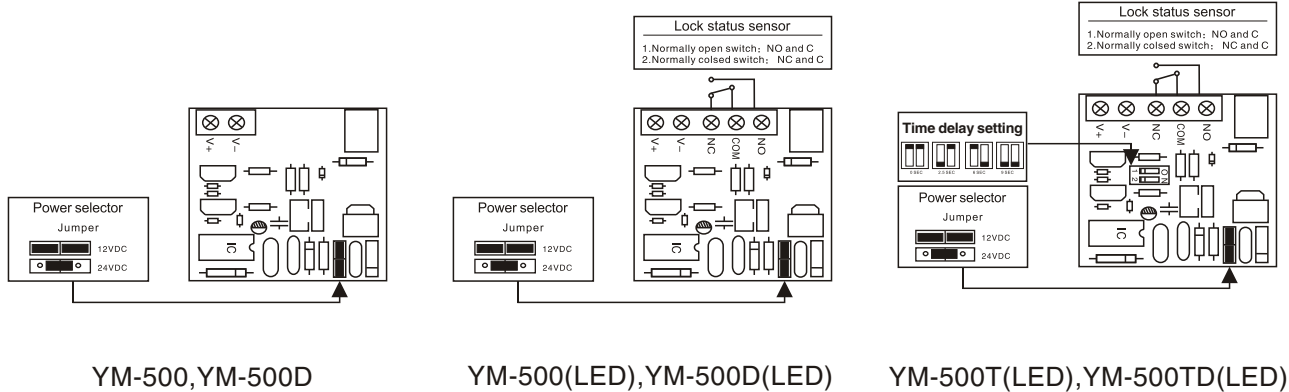Demonstration of UL Bracket Installation

Circuit Board Diagram

A.12VDC Input:
Required power 0.42Amp(Minimunm).
Connect the positive(+)lead from a 12VDC power source to V +.
Connect the ground(-)lead from a 12VDC power source to V -.
Check jumper for 12 VDC operation.

B.24VDC Input:
Required power 0.21Amp(Minimunm).
Connect the positive(+)lead from a 24VDC power source to V +.
Connect the ground(-)lead from a 24VDC power source to V -.
Check jumper for 24 VDC operation.

Lock status sensor
1.Normally open switch：NO and C
2.Normally colsed switch：NC and C

Power selector Jumper — 12VDC / 24VDC

Time delay setting

YM-500,YM-500D   YM-500(LED),YM-500D(LED)   YM-500T(LED),YM-500TD(LED)

Wire Connection

ELECTRIC DOOR BELL

ACCESS CONTROL

POWER SUPPLY

H N.C L TAMPER   N.O EG GND   N.O DOOR BELL   + − 12VDC   N.C COM N.O OUTPUT

Push   + GND 12V   N.C GND N.O OUTPUT 1

N.O. connect to door bell

ALARM SYSTEM

N.C. HIGH POTENTIAL LOW POTENTIAL

24 HOUR N.C PROTECTION ZONE

RELEASE BUTTON (INSIDE THE HOUSE)   N.O.

MORE RELEASE BUTTONS CAN BE CONNECTED IN PARALLEL   N.O.

ELECTROMAGNETIC LOCK

N.C

− +