YLI ELECTRONIC

Magnetic Lock(280kg)

UI294&UL1034

Specification

Model	Size(unit:mm)	Voltage	Input	Holding Force	Lock Signal	Door Signal	Time	Door
YM-280N(LED)-UL	250Lx48.8Wx27.9H	12/24VDC	12V/550mA(default) 24V/275mA	500Lbs	NO/NC/COM	—	—	Single Door
YM-280NT(LED)-UL	250Lx48.8Wx27.9H	12/24VDC	12V/550mA(default) 24V/275mA	500Lbs	NO/NC/COM	—	0/3/6/9sec.	Single Door
YM-280N(LED)-DS-UL	250Lx48.8Wx27.9H	12/24VDC	12V/550mA(default) 24V/275mA	500Lbs	NO/NC/COM	NO/NC/COM	—	Single Door
YM-280ND(LED)-UL	500Lx48.8Wx27.9H	12/24VDC	12V/550mAx2(default) 24V/275mAx2	500Lbsx2	NO/NC/COM	—	—	Double Door
YM-280NTD(LED)-UL	500Lx48.8Wx27.9H	12/24VDC	12V/550mAx2(default) 24V/275mAx2	500Lbsx2	NO/NC/COM	—	0/3/6/9sec.	Double Door
YM-280ND(LED)-DS-UL	500Lx48.8Wx27.9H	12/24VDC	12V/550mAx2(default) 24V/275mAx2	500Lbsx2	NO/NC/COM	NO/NC/COM	—	Double Door

a) Static strength rating of 500 pounds-force (2224 N).
b) Dynamic strength rating of 33 foot-pounds-force (45 J).
c) Endurance rating of 250,000 cycles.

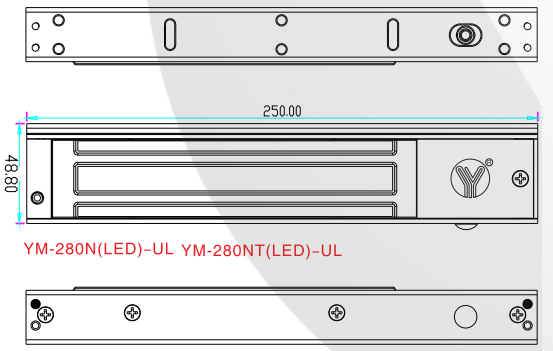
Standard Options:N: Basic Model (Lock Signal) D: Double door T: Time Delay TD: Double door with time delay DS: Door Signal

Usage Environment:0~95%

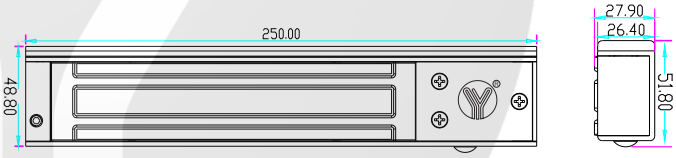
Ambient Temperature Range: -20℃~+55℃(-4-131°F)

Destructive attack level I; Line security level I; Endurance level IV; standby power level I

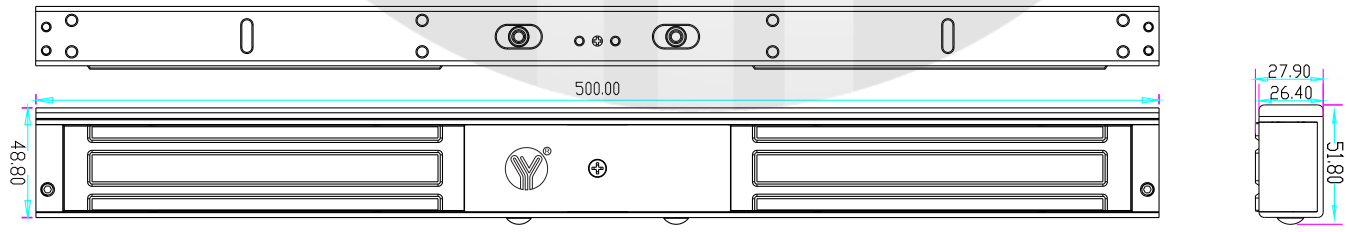
Diagram(unit:mm)



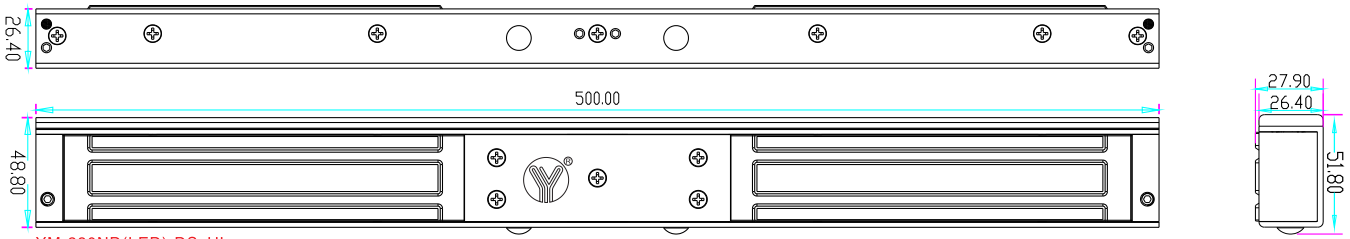
YM-280N(LED)-UL YM-280NT(LED)-UL



YM-280N(LED)-DS-UL

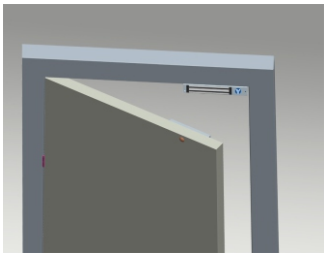


YM-280ND(LED)-UL YM-280NTD(LED)-UL

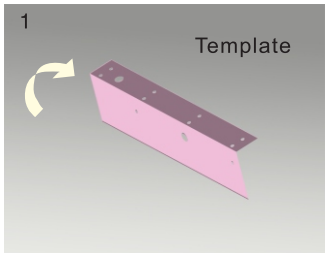


YM-280ND(LED)-DS-UL

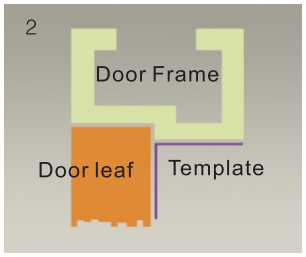
Installation



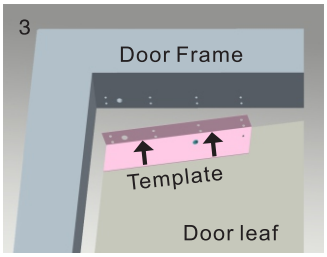
Steps



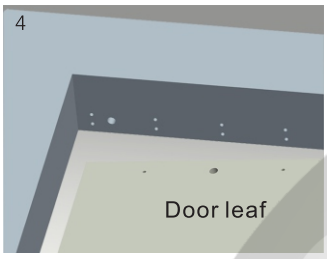
Fold the plate to 90° .



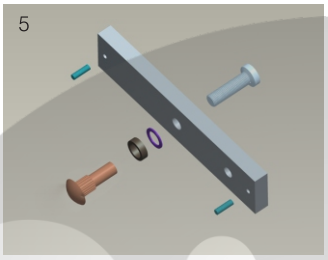
Close the door first, then place the upper side of template on door frame, while adjust the left side next to the door leaf.



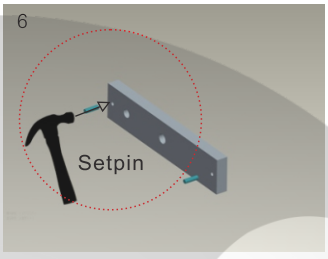
Mark screw positions of armature plate and magnetic lock on door leaf and door frame respectively.



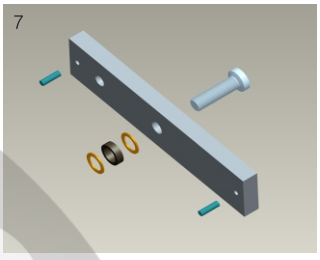
Drill holes based on the marked positions.



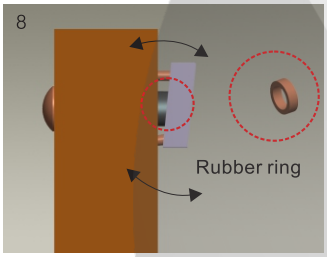
Make a combination based on the picture.



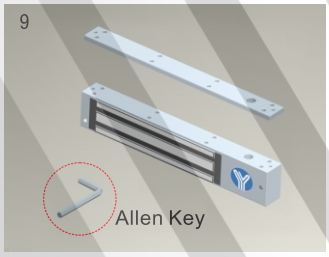
Strike the pin into the armature plate slightly (to avoid movement).



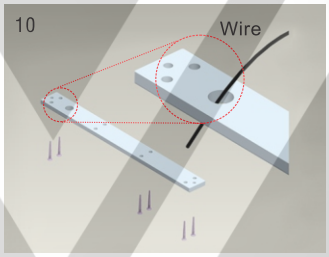
Make a combination based on the picture(add washer accordingly). The rubber ring must be added.



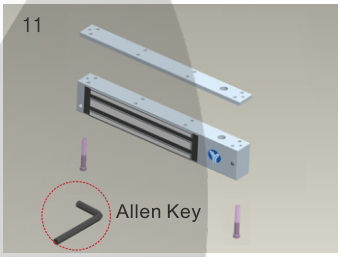
Place the rubber ring between armature plate and door leaf.



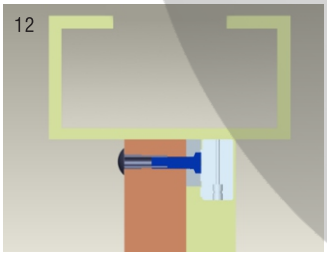
Use Allen key to remove the mounting plate from lock body.



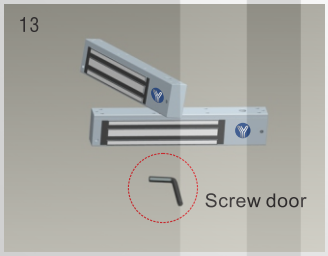
Fix the mounting plate on the door frame according to the holes drilled earlier.



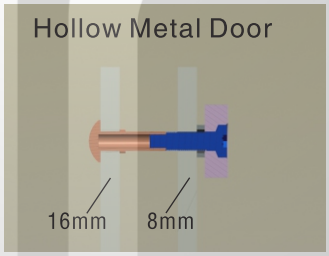
Use Allen key to screw the lock body on the mounting plate.



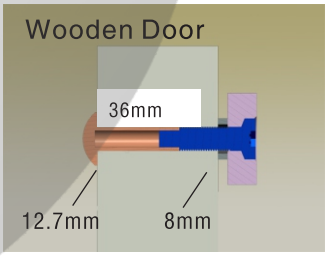
Close the door to test holding force. The angle between armature plate and magnetic lock can be adjusted by adding or reducing washers.



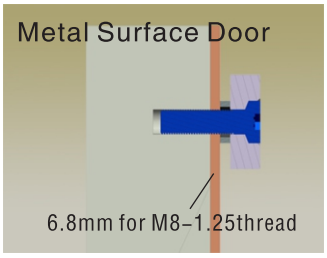
After all the appropriate procedures, the holding force can be maximized. Finally, fix the tamper screw.



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



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



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

⚠ Notice:

Thickness of Door Leaf:

350LBS: 44mm 600LBS: 50mm 800LBS: 48mm 1200LBS: 46mm

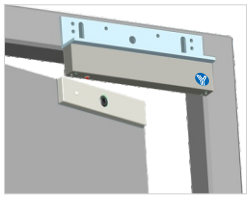
A. The screw of armature plate should not be fixed too tight. Proper elasticity should be guaranteed for the rubber ring so that the armature plate can adjust itself to the appropriate position.
B. Check the jumper's position before connecting. Figure out it represents 12VDC or 24VDC.

Bracket Installation

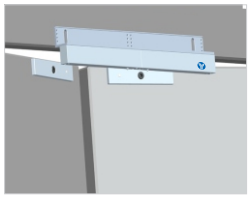
Different brackets are available according to different types of doors. For example,narrow door , frameless glass door and inward opening door.(bracket series need purchase separately)

L Bracket

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



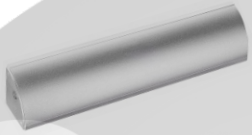

Single Door Magnetic Lock Bracket



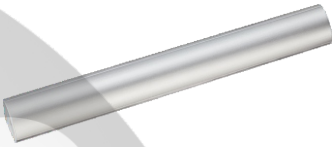

Double Door Magnetic Lock Bracket

LC Bracket

LC Bracket one-piece design,wires are mortised,no damage on wires

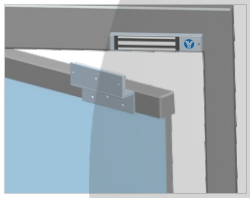
Single Door Magnetic Lock Bracket

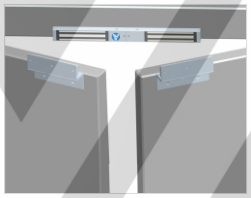
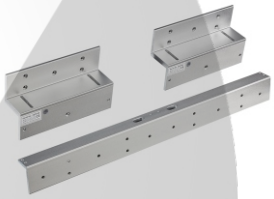
Double Door Magnetic Lock Bracket

ZL Bracket

If install a bracket on inward opening door,ZL bracket is needed



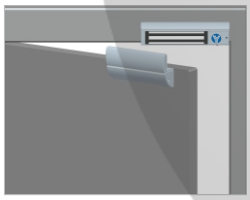

Single Door Magnetic Lock Bracket

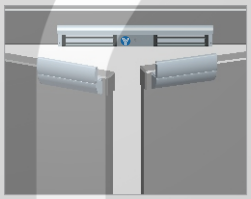
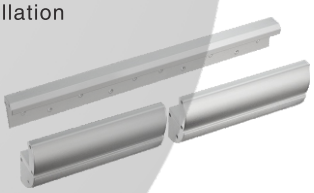
Double Door Magnetic Lock Bracket

ZLC Bracket

Hidden-line Design of bracket for single door magnetic lock,one-piece design,durable,easy installation



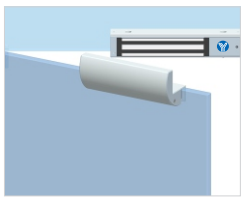

Single Door Magnetic Lock Bracket

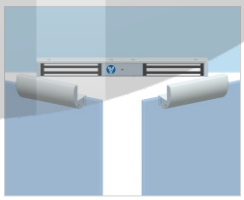
Double Door Magnetic Lock Bracket

GZ Bracket

One-piece design,durable&professional design,easy installation,suitable for 10-15mm frameless glass door



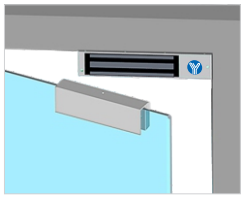

Single Door Magnetic Lock Bracket




Double Door Magnetic Lock Bracket

U Bracket

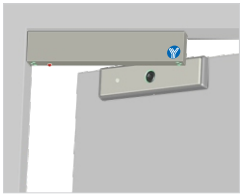
If door leaf is glass,need U bracket to be used with lock (suitable for 10-12mm glass door)




Single Door Magnetic Lock Bracket

Installation of Armature Plate

If door leaf is too thick,need to choose I bracket




Double Door Magnetic Lock Bracket

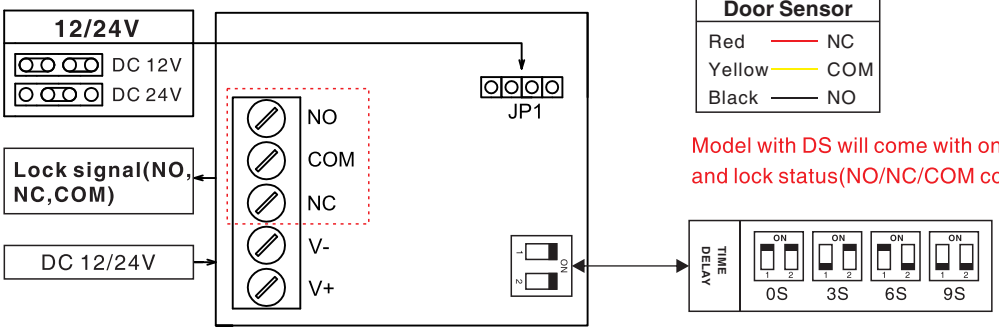
Circuit Board Diagram

Wiring methods shall be in accordance with the National Electrical Code.ANSI/NFPA 70

A.12VDC Input:
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:
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.

Wiring Instruction of Single Door Magnetic Lock



Door Sensor	
Red	NC
Yellow	COM
Black	NO

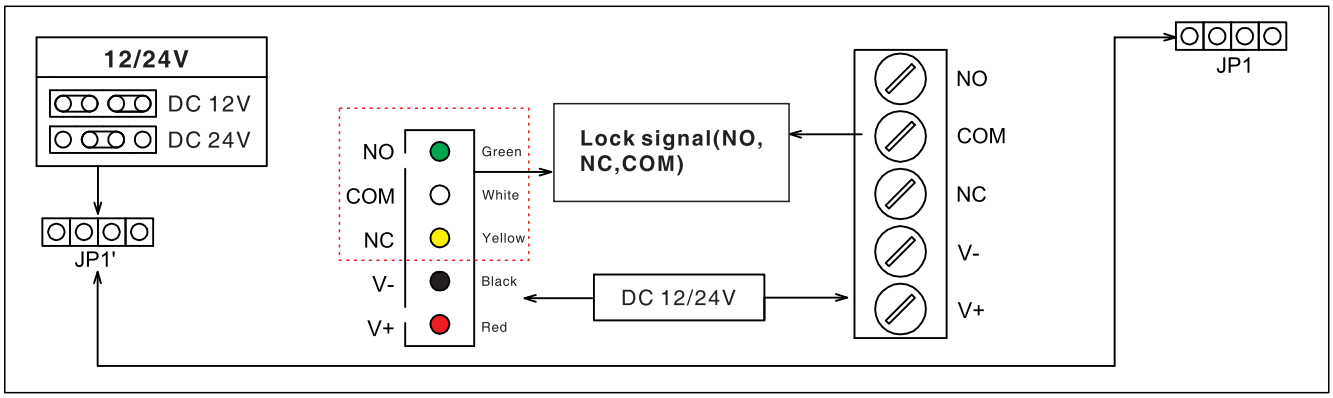
Model with DS will come with one more set of signal for door sensor and lock status(NO/NC/COM contact)

Model with T will come with this function

Wiring Instruction of Double Door Magnetic Lock

Connection: green wire or white plug, except the models without LED indicator and signal output; only when it detects that double doors have been locked, there will be normal signal output.

The lead shall not be spliced to a conductor larger than 18 AWG



Wire Connection

Except for Electromagnetic lock, other products (ACCESS CONTROL, POWER SUPPLYare not provided.
Wiring is for reference, please refer to the related product wiring instruction.