Electromagnetic locks manual

Introduction:

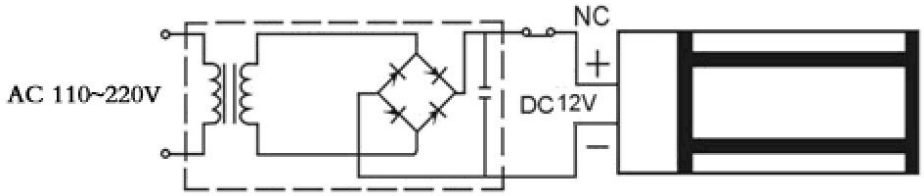
An electromagnetic lock, magnetic lock, is a locking device that consists of an electromagnet and an armature plate used for access control door locks.By attaching this to the door frame and the armature plate to the door, a current passing through the electromagnet attracts the armature plate, holding the access control door lock shut.Unlike an electric strike access control door lock a magnetic lock has no interconnecting parts.it is possible to bypass the lock by disrupting the power supply. The whole system includes electric lock,power supply, access controller,exit button,door bell or RFID cards.

Specifications:

Holding Force	60Kg/130LB	280Kg/620LB	500Kg/1100LB	280Kg/620LB with Mortise Mount
Lock size(mm)	80*37.3*23.3	250*46.8*25.2	266.5*72.9*40	250*42*25.2
Mounting Plate size	74*32*11	179*38*11	180*60.8*14.8	179*38*11
Working Voltage	DC12V	DC12V	DC12V	DC12V
Working current	12V/110mA	12V/480mA	12V/500mA	12V/480mA
Operating Temperature	-10° C~+55° C	10° C~+55° C	-10° C~+55° C	10° C~+55° C
Relative Humidity	0-95%	0-95%	0-95%	0-95%
LED Status indicator	None	YES	YES	None

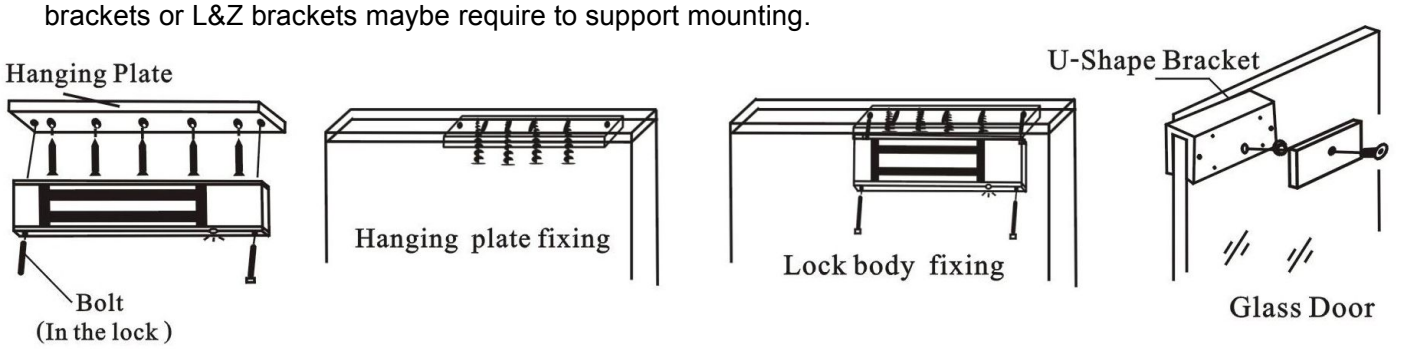
Wiring Diagram:

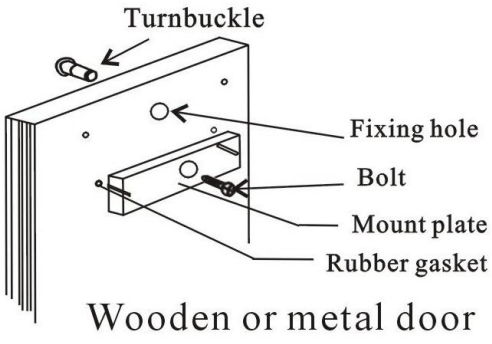
1.Working mode: fail-safe (Power-on lock,Power off unlock)
2.LED Status indicator: turn on when locking,turn off when unlock
(some mode without LED Status indicator)
3.The red wire is anode “+” electrode ,the black wire is cathode “-”electrode.

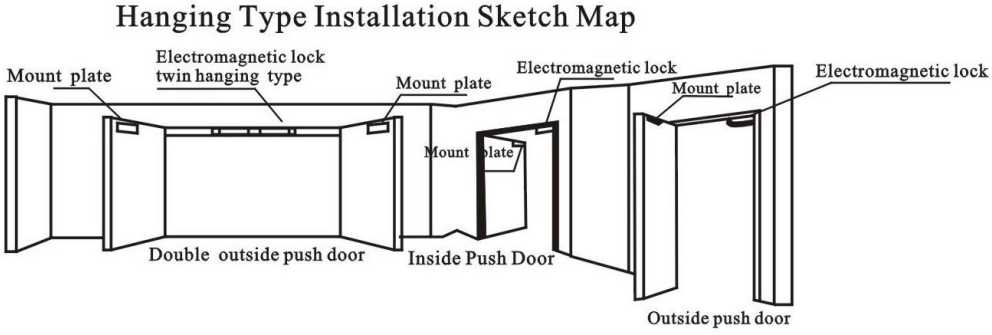


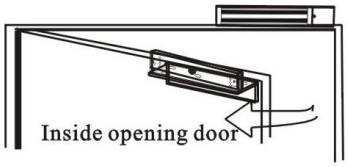
Installation Diagram:

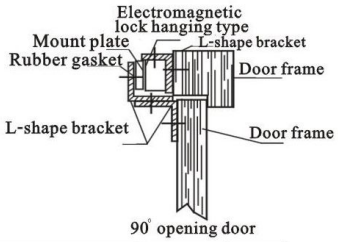
Based on the different doors and swinging direction, additional brackets(original package not included),like U brackets or L&Z brackets maybe require to support mounting.



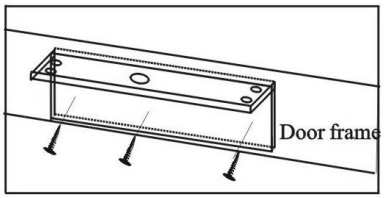




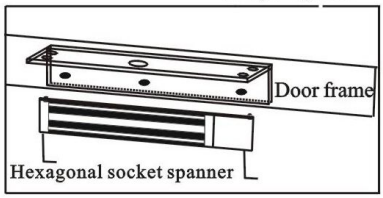




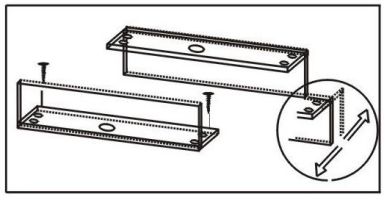
L-shape bracket installation method:



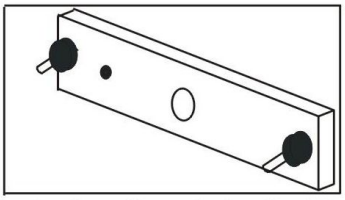
Firstly measure a right position to install the electromagnetic lock, fix the L-shape bracket to the door frame, make sure the bracket will not effect the opening of door.



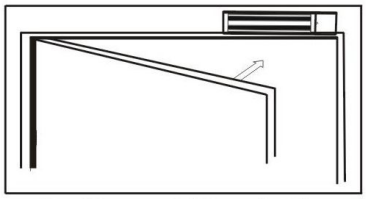
Secondly use hexagonal socket spanner to screw the bolt to fix the lock to the L-shape bracket.



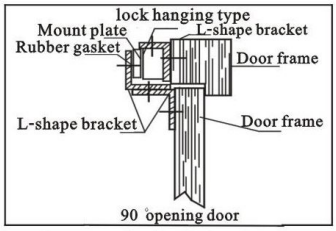
Fix the other 2 L-shape brackets together which is be adjustable.



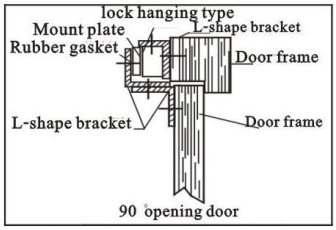
Put the other rubber gasket into the sticks of the mount plate as above picture shows.



Level the mount plate against the Electromagnetic lock E part, then Power on to close the door.

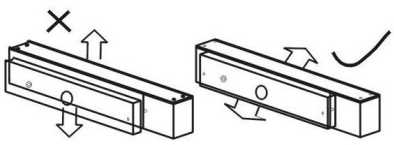


Once the mount plate leveled at electromagnetic Lock, adjust Z-shape bracket to the same level of door upside, and screw the Z-shape bracket firmly.

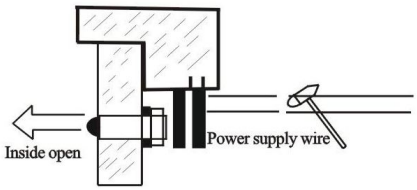


Then close the door to test the holding force, add or reduce the rubber gasket or screw the mount plate to adjust the gap between mount plate and electromagnetic lock, make sure the 2 parts close completely.

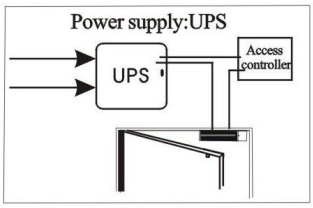
Notice:



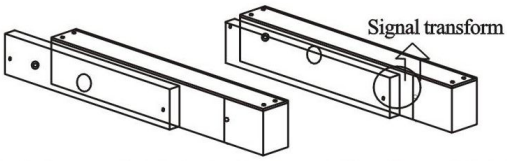
To make sure the electromagnetic lock be on the same level with mount plate, as picture shows, or the holding force will decrease, the door can open by hand easity.



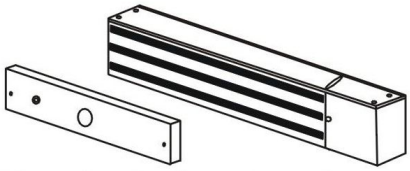
Make sure the power supply wire and signal wire is wrapped and ensconced, as above picture shows the L-shape bracket is advised to install inside of door for inside opening door.



The electromagnetic lock is power-off opening type, we'd advise you to use UPS to supply power in case power goes off.



Make sure the electromagnetic lock face be closed completely with mount plate. If not, the holding force will decrease, moreover the howard detecting component will not be activated to cause no signal output from lock.



Make sure the surface of mount plate and electromagnetic lock is clean, no deformation and rust which will decrease the holding force and stop signal output. Normally, cleaning it with preservative oil.