

The manual of hanging type electromagnetic lock(Model BCL-2501)

I、Brief Introduction:

BCL-2501 is a new design waterproof Electromagnetic lock, which is of innovative and noble design with stainless steel housing, elegant appearance with special treatment. What's more, both of the lock body and the suction plate are processed with rust treatment. Besides, BCL-2501 has the function of stable performance and low-power waste because of the built-in surge absorber protection. Above all, the lock will not be hot with continuous work. Using more safe reliable!

II、Technical Parameter:

Working Voltage: 12VDC±15%

Working Current: 440mA

Ambient Temperature: -30℃~55℃

Relative Humidity: 10%~95%

Holding Force: 300kg

Dimension of Lock Body: 228mm×52mm×28mm

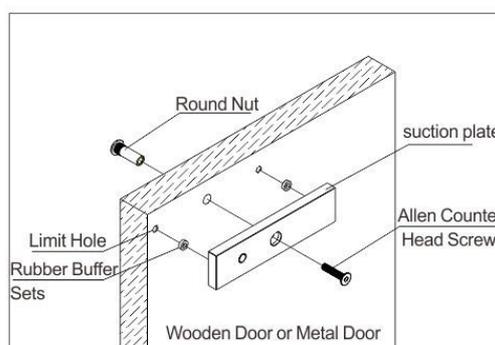
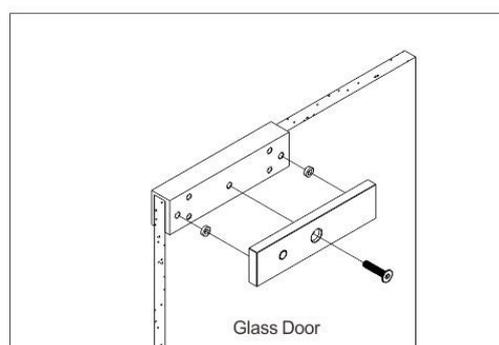
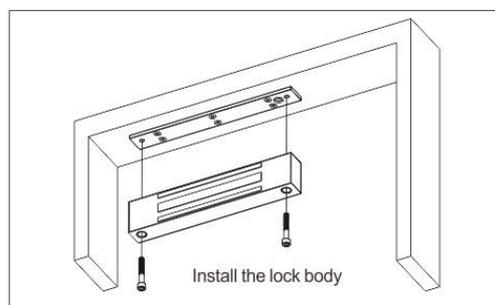
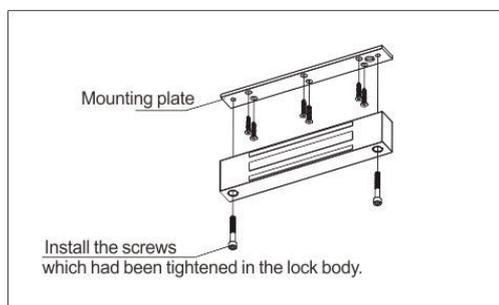
Dimension of Suction Plate: 150mm×46mm×13mm

Security Type: Lock on power/unlock off power

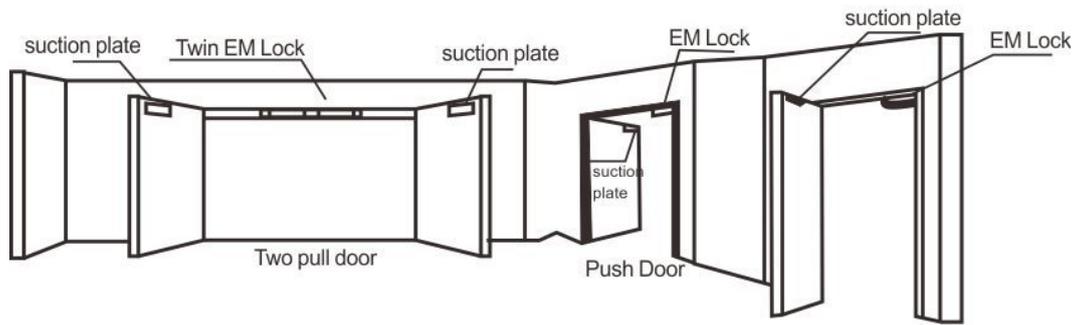
Red → (VCC) Anode of power supply

Black → (GND) Cathode of power supply

III、Installation Diagram:



Installation Diagram

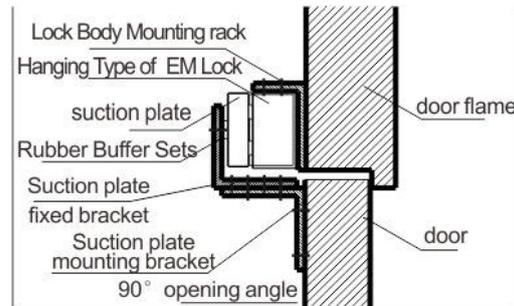
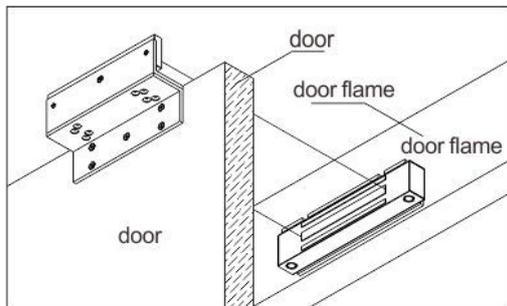


IV、 Application Scope:

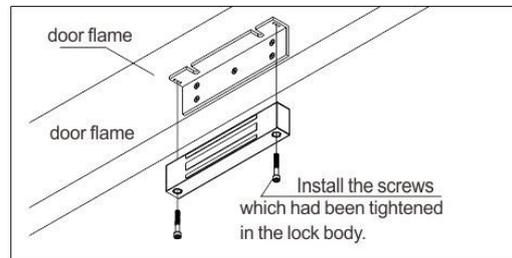
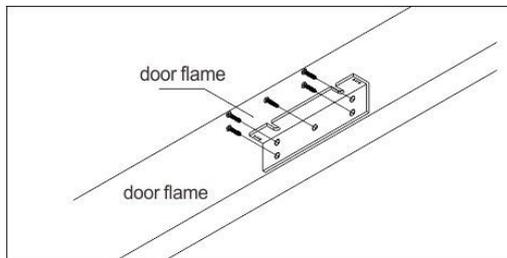
Suitable for installing wooden gate with 90° opening angle, stainless steel door and emergency exit, etc.

EM lock is power on locking. Therefore, if you need it on lock status although under the power-off situation, you need to equip the UPS (Uninterrupted Power Supply).

V、 The diagram of installing L-shape on the push door

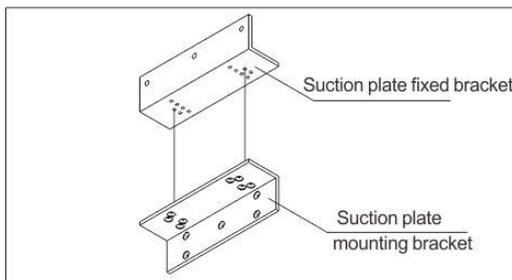


Installation Steps:

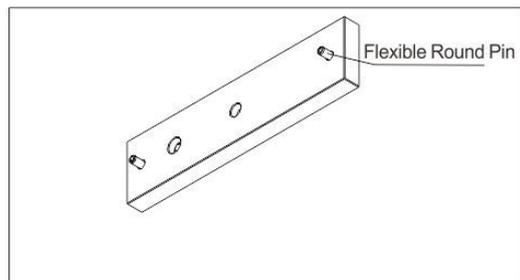


Select one suitable place to set up the lock; fix the L-shape (do not influence to open the door)

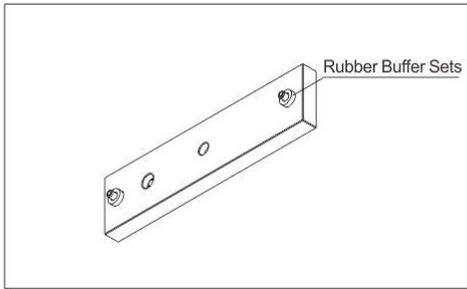
Using the inner hexagon spanner to fix the lock with L-shape



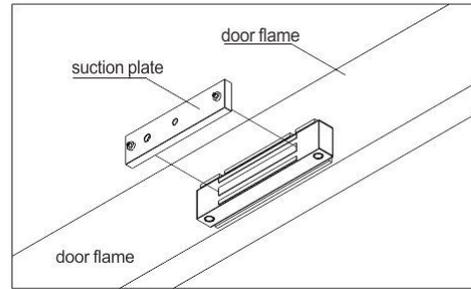
assemble the Z part of L-shape bracket, please noted that this part is adjustable.



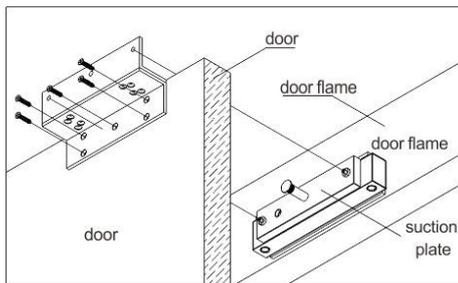
Press the elastic round pin into the toaling hole of suction plate



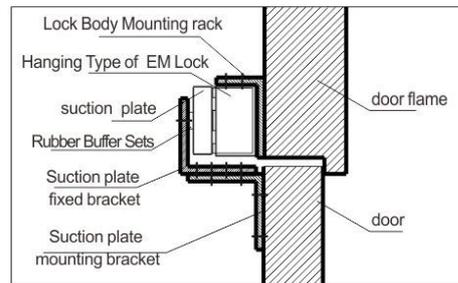
Using the rubber washer to cover the locating pins which are located in the two sides of suction plate, according to the picture.



The suction plate must be correctly aimed at the lock, and then on power, finally close the door.

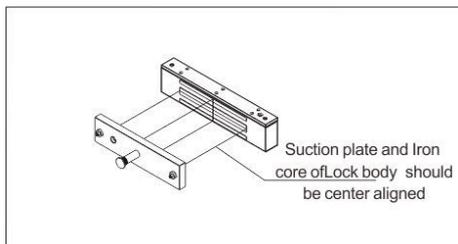


Adjusting the Z part of the bracket so as to justly touch the door after the correct aiming at suction plate and the lock body. Then tighten the screws of the Z part.

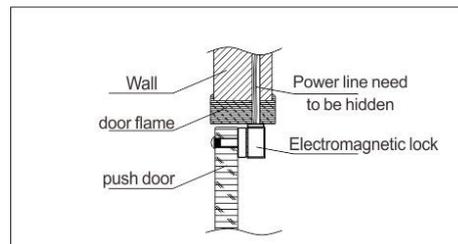


Test the holding force-you can properly increase or decrease the washer or tighten the screws to adjust the space between the suction plate and the lock so as to complete touch.

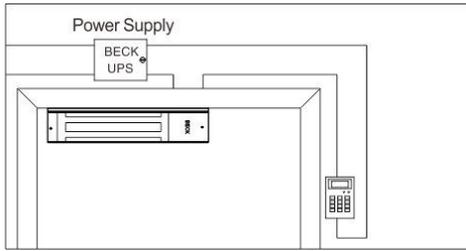
VI、 Attention



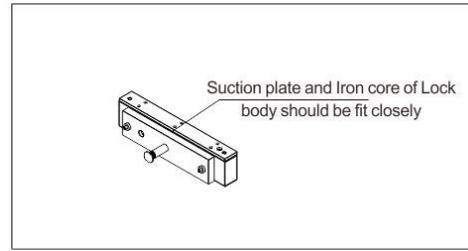
Whatever the installation way you choose, the lock body must be completely aimed at the suction plate. Otherwise, it will greatly reduce the holding force or maybe just a pull can also open the door.



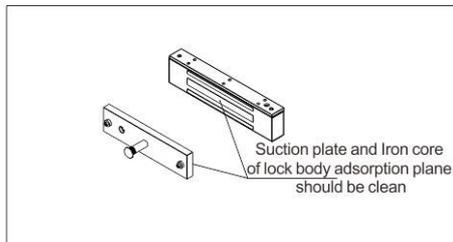
Whatever the installation way you choose the power line and signal line and other lines should be hidden. If the door is pull door which need to be pulled to open the door when you are outside, the lock must be equipped with L-shape bracket and you had better to install it inside the door.



EM lock is fail safe. We suggest you equip the UPS in case of the situation when the power is off to be more safe and secure.



The lock body must be completely aimed at the suction plate. Otherwise, it will lead to reduce the holding force and no reaction from the inner Howard Element. Finally no any signals will be outputted.



Keep the absorption surface between suction plate and lock clean and tidy, no rust or blot and with good shape. Otherwise, it also will reduce the holding force and no signals will be outputted. The way to solve this problem is to slightly wipe this place with preservative oil.

VII、Original List

Buffer sets:	2	Inner hexagon spanner:	1
EM Lock:	1 Piece	Suction Plate:	1 Piece
Accessories:	1 Bag	Instruction:	1 Piece

VIII、Common Fault Treatment:

Situations	Reasons	Elimination Method
Can not lock	Line Fault or too low volatge	To check the line, test the voltage whether is normal or not
	The power line is too thin or too long so as it may results in the voltage drops too quickly.	To change the power line(select a thick one)
	The power supply maybe is out of work so as there is no any voltage.	To repair or change a new power supply
	You may make a mistake at the positive and negative poles	To check the polarity and then correct it.
	There is no power output	To check whether the lines from the access controller and the power supply are correctly connected to the point of NC. Besides, to check the settings to

		access controller is right or not. After all, different controller has the different wiring, please do it under the instruction.
Tension is not enough,	The absorption surface maybe has not touched completely.	To check the absorption surface whether is damaged which will result in incompletely closed. You need to repair it or change a new one.
	The suction plate may be fixed very very tight	To check the rubber washer whether has been put into the locating pin of suction plate. To adjust the set screw so as to let the suction
	The door is out-shape or shifting. Or the absorption surface did not completely touch.	To adjust the suction plate which had been fixed with door-frame, so as to keep the suction plate and the lock completely touch
	There is blot or other things on the absorption surface.	Please to clear the blot. If there is rust, you have to repair it or change a new one.
	The power is not enough.	Please check the voltage and current by using multimeter.
	The power line of lock is too thin or too long.	Pls use a better power line which is thicker and shorter and it had better no longer than 20m
	The lock maybe is of bad quality	To Repair it or change a new one.
Can not open the door	You did not cut the power	To check the unlock control circuit of the access controller or the power supply is correct or not. Please noted that the EM Lock is power-off lock type, so just cut the power, the door will open.