

GL-850 Midi Magnetic Lock Face Mount and Waterproof



Features

- High reliability
- Dual voltage 12 or 24 VDC (selectable)
- MOV provides spike and surge protection
- Anti-Residual magnetism function
- Holding force up to 800 lbs

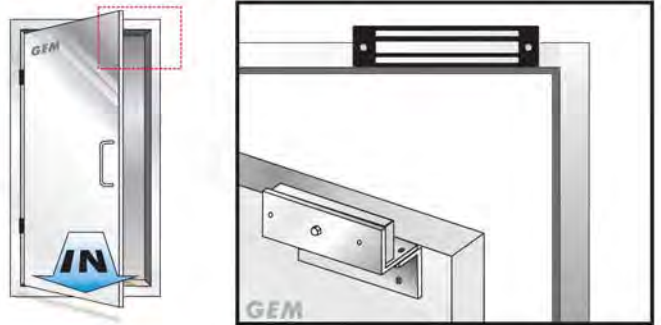
Statement

GL850 is designed for face mount on in-swing doors or gate. With stainless steel housing, it is suitable for outdoor applications and severe weather conditions. GL850M comes with magnetic bond sensor indicating locked and unlocked status.

Specification

- Operating Voltage: Single Voltage: 12 or 24VDC
Dual Voltage: 12/24VDC
- Current Draw:
Single Voltage: 340mA/12VDC, 250mA/24VDC
Dual Voltage: 500mA/12VDC, 250mA/24VDC
(at temperature 20°C)
- Bond sensor output (GL-850M): SPDT rated 0.5A/20VDC
- Operating Temperature: -10~55°C (14~131°F)
- Humidity: 0~95% non-condensing.
- Holding Force: Up to 800 lbs (363 Kg)
- Dimensions:
Magnet: (L) 232, (W) 45, (D) 30 mm
Armature Plate: (L) 185, (W) 45, (D) 14 mm
- Special Finishes for magnet and armature plate: Zinc plated
- Epoxy Potting Compound: E87252 (S), UL94V-0
- Net Weight : 2.6 Kg

Regular Installation

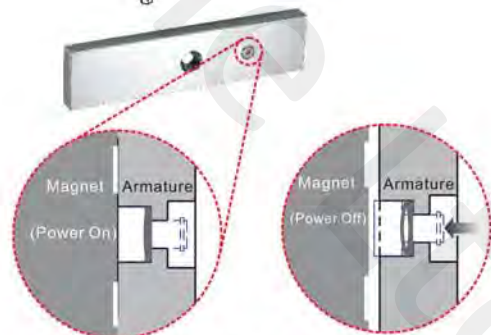
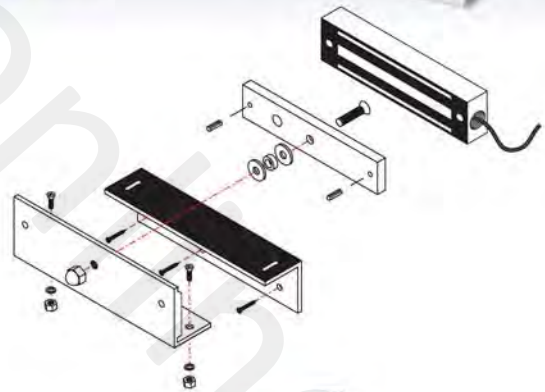


Optional Brackets

Z-bracket for inswing doors



Z-300N



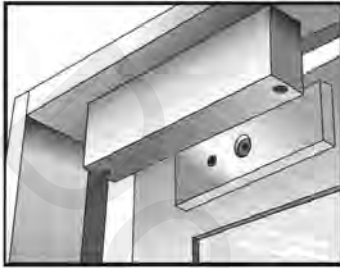
Anti-residual statement

Our electromagnet locks feature Anti-Residual Magnetism (ARM) which ensures the door can be opened without any resistance from left over magnetism imparted to the armature plate

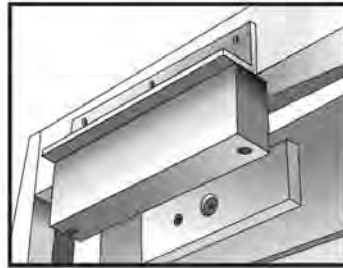
Electromagnetic Lock Installation Instruction (Waterproof Series)

Optional Bracket

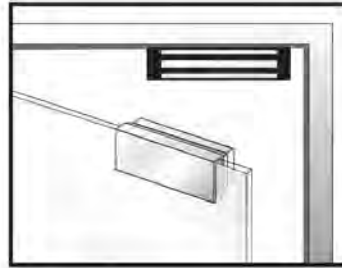
Brackets installation are according to door swing direction and door frame type, e.g. narrow frame door, frameless glass door, inswing door, etc.



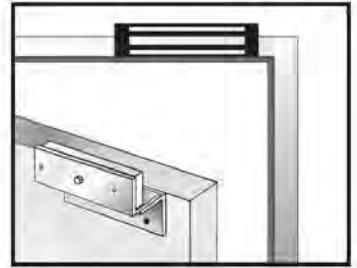
Regular Installation
(outswing door)



L-bracket for
narrow frames (optional)

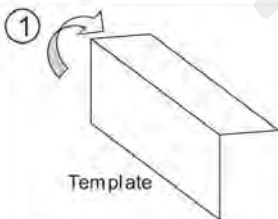


U-bracket for frameless
glass doors (optional)



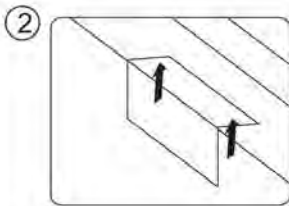
LZ-bracket for
inswing doors (optional)

Regular Installation

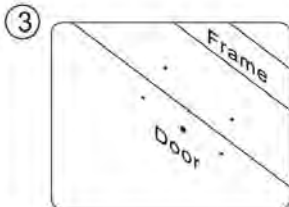


Fold the mounting template 90°

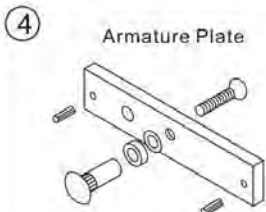
Template



Place the template to the proper position of the door and frame. Mark the hole positions of the template to the door and frame

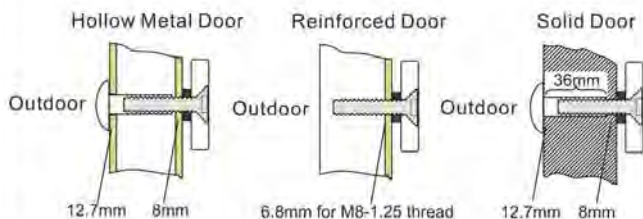


Drill the holes according to the marks.



Armature Plate

Please install the armature plate as illustrated here. (Dimensions of the holes are depending on the door types as illustrated below.)



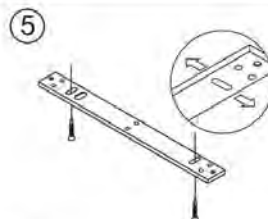
Drill a $\varnothing 8\text{mm}$ hole through door, on closing side enlarge to $\varnothing 12.7\text{mm}$ by a sexnut blot on the opening side.

Drill a $\varnothing 6.8\text{mm}$ hole and tap on closing side a M8x12.5 thread.

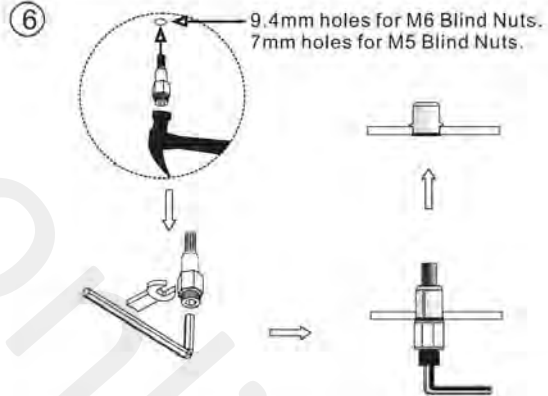
Drill a $\varnothing 8\text{mm}$ hole through door on closing side enlarge to $\varnothing 12.7\text{mm}$, by a sexnut blot on the opening side. The depth is 36mm.

Recommendation:

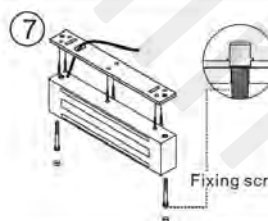
- For Micro EM-locks (300 LBS), maximum thickness of door is 44 mm.
- For Mini EM-locks (600 LBS), maximum thickness of door is 50 mm.
- For Midi EM-locks (800 LBS), maximum thickness of door is 48 mm.
- For Maxi EM-locks (1200 LBS), maximum thickness of door is 46 mm.



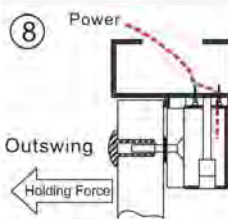
Fasten the mounting plate with the mounting screws. The position of the mounting plate should be adjustable.



9.4mm holes for M6 Blind Nuts.
7mm holes for M5 Blind Nuts.

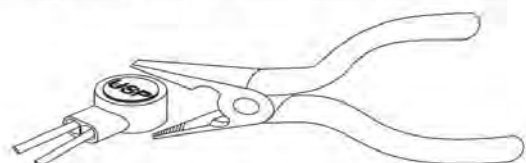


Use the screws to permanently mount the mounting plate, then mount the magnet with the fixing screws provided.



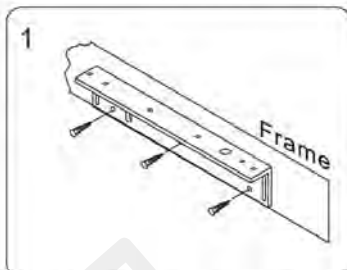
Connect the power and test the unit. Insert the anti-tamper caps into the holes of mounting screws.

Butt Splice(IDC) Connector

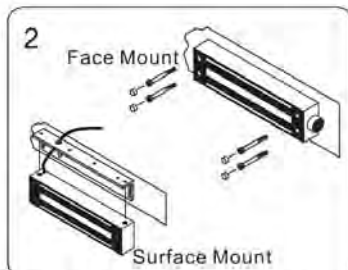


Using crimpers or pliers and pressing the header of connector down to even position.

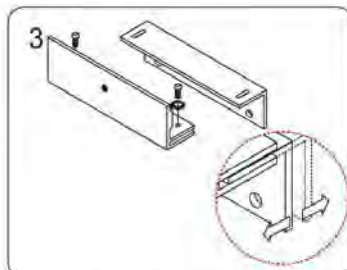
LZ or Z bracket for inswing doors



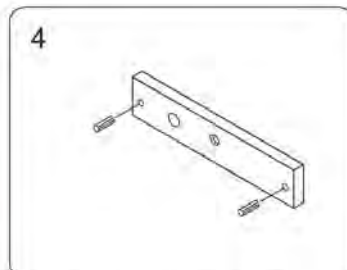
1 Find a mounting position on the door frame for the L bracket. Make sure that the door is still closeable.



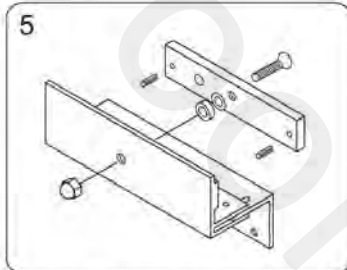
2 Use the fixing bolts to tighten the electromagnetic lock on L bracket. (For face mount, the magnetic lock can be mounted directly on the door frame)



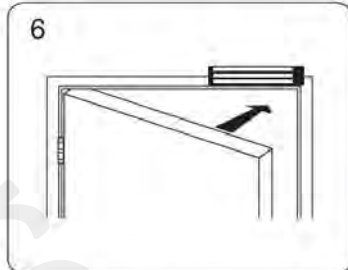
3 Assemble the Z bracket, and make sure that the Z bracket is adjustable.



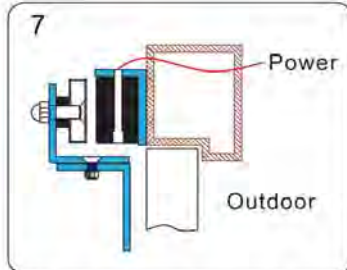
4 Insert the guide pins into the armature plate.



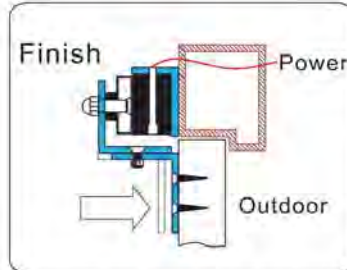
5 Fasten the armature plate to the Z bracket (Must add rubber washer)



6 Close the door and connect the power



7 After the maglock attracts the armature adjust plate, the Z bracket to fit the door.



8 Fasten the Z bracket to the door.

Connecting Diagram

Wire Leads	Voltage	Bond sensor output
2C Wire Leads Single voltage (Power input is polarity free)	12 VDC: Black, Red Control Device N.C. contact or Access Relay 24 VDC: Black, White Control Device N.C. contact or Access Relay 	
4C Wire Leads: Dual voltage (Power input is polarity free)	Voltage Selection: 12 VDC Voltage Selection: 24 VDC 	
5C Wire Leads Bond Sensor Output (Power input is polarity free)	Control Device N.C. contact or Access Relay 	Bond sensor output Indicates the locked (N.O. contact) or unlocked (N.C. contact) status (Relay rated 0.5/20VDC) White:N.C. Black:COM. Red:N.O.
6C Wire Leads Dual voltage and Bond Sensor Output (Power input is polarity free)	Voltage Selection: 12 VDC Voltage Selection: 24 VDC 	Bond sensor output Indicates the locked (N.O. contact) or unlocked status (N.C. contact) (Relay rated 0.5A/20VDC) Blue:COM. Yellow:N.O.
7C Wire Leads Dual voltage and Bond Sensor Output (Power input is polarity free)	Voltage Selection: 12 VDC Voltage Selection: 24 VDC 	Bond sensor output Indicates the locked (N.O. contact) or unlocked status (N.C. contact) (Relay rated 0.5A/20VDC) Yellow:N.O. Blue:COM. Orange:N.C.