

## GL-1200F Waterproof Electromagnetic Lock (Face Mount)



Fire Exposure and Hose Stream Tests were conducted in accordance with the standard, "Positive Pressure Fire Tests of Door Assemblies," ANSI / UL 10B and 10C, uniform building code standard UBC 7-2 (1997).

### Features

- **Low maintenance with high reliability**
- **Stainless steel casing**
- **High reliability**
- **Dual voltage 12 or 24 VDC (selectable)**
- **MOV provides spike and surge protection**
- **Anti-Residual magnetism function**
- **Holding force up to 1200lbs**

### Statement

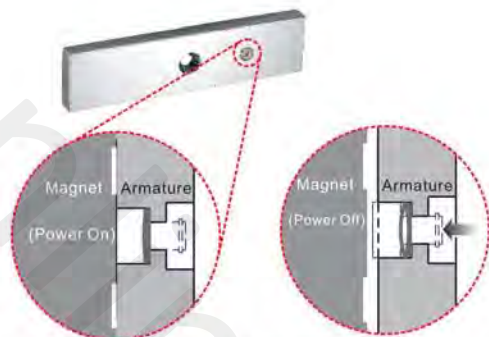
GL-1200F is designed for face mount on sliding doors or gate. The maglock can be configured to mount on in-swing doors with optional Z-shaped brackets. It achieves waterproof rating IPX 7 and is suitable for outdoor applications. GL1200R comes with magnetic bond sensor indicating locked and unlocked status.

### Specification

- Operating Voltage: Single Voltage: 12 or 24VDC  
Dual Voltage: 12/24VDC
- Current Draw:  
Single Voltage: 460mA/12VDC, 250mA/24VDC  
Dual Voltage: 500mA/12VDC, 250mA/24VDC  
(at temperature 20°C)
- Bond sensor output (GL1200R): 0.5A/20VDC
- Operating Temperature: -10~55°C (14~131°F)
- Humidity: 0~95% non-condensing.
- Holding Force: Up to 1200 lbs (545 Kg)
- Dimensions:  
Magnet:(L) 202, (W) 62, (D) 40 mm  
Armature Plate:(L) 185, (W) 62, (D) 16 mm
- Special Finishes for magnet and armature plate: Zinc plated
- Epoxy Potting Compound: E87252 (S), UL94V-0
- Net Weight: 4.8 Kg



This series of Waterproof Magnetic Lock is protected by epoxy potting compound. Also, GEM Waterproof Series Magnetic Locks have been proved to withstand water with the test procedures of IPX7, IPX8 by a trusted third party. Therefore users need not worry that the lock will rust or spark, if the lock is in outdoor applications and installed in confined space where inflammable gases are stored.

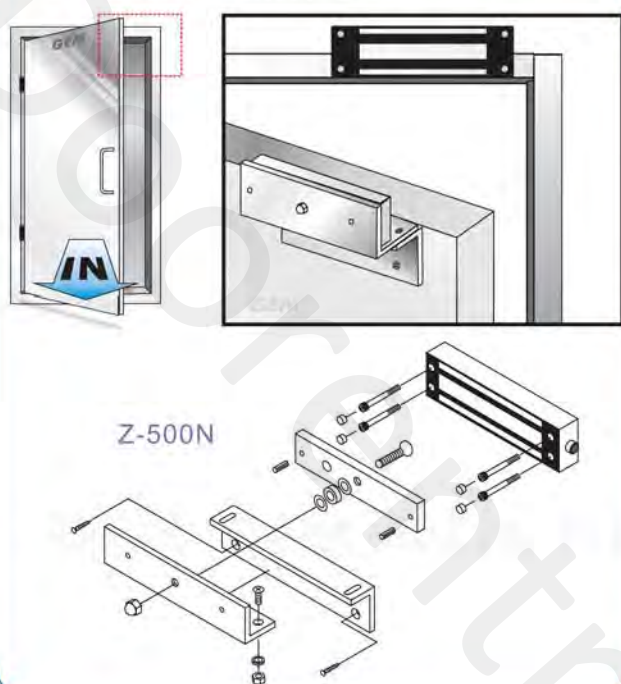


### Anti-residual statement

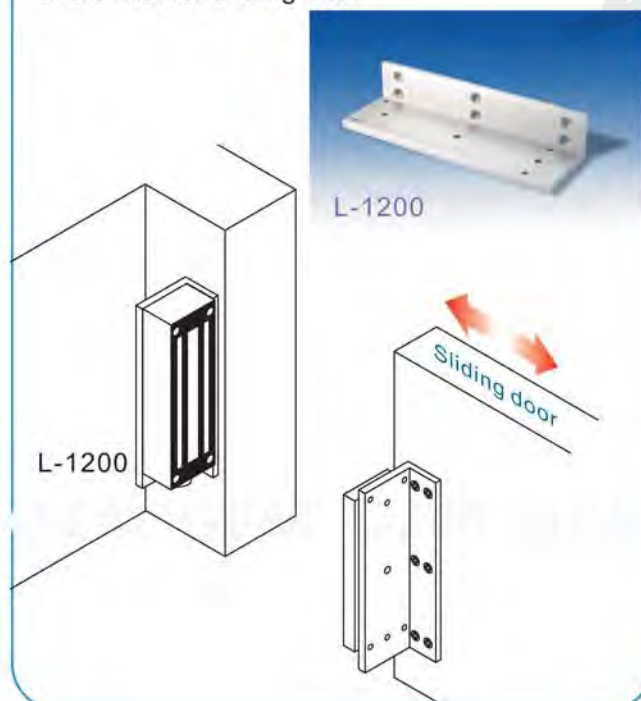
Our electromagnet locks feature Anti-Residual Magnetism (ARM) which ensures the door can be opened without any resistance from left over magnetism imparted to the armature plate

Optional Brackets

Z-bracket for inswing doors



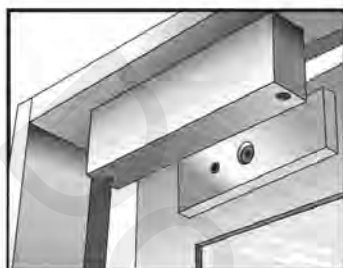
L-bracket for sliding door



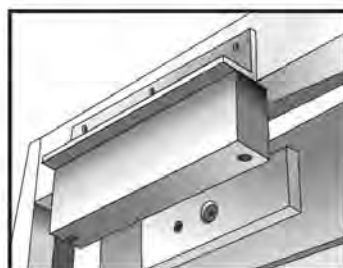
# Electromagnetic Lock Installation Instruction (Waterproof Series)

## Optional Bracket

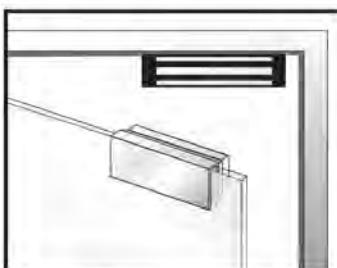
Brackets installation are according to door swing direction and door frame type , e.g. narrow frame door , frameless glass door , inswing door , etc.



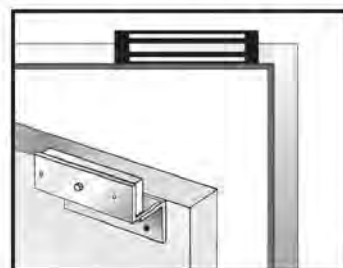
Regular Installation  
(outswing door)



L-bracket for  
narrow frames (optional)

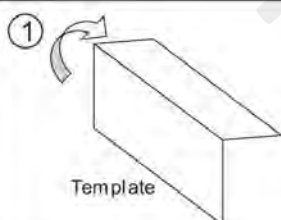


U-bracket for frameless  
glass doors (optional)

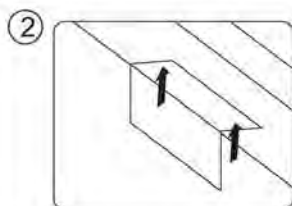


LZ-bracket for  
inswing doors (optional)

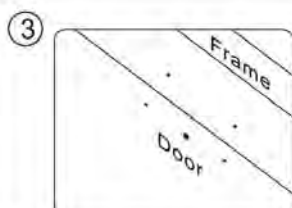
## Regular Installation



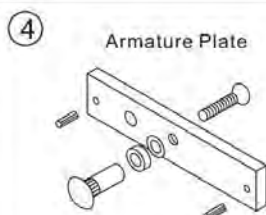
Fold the mounting template 90°



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

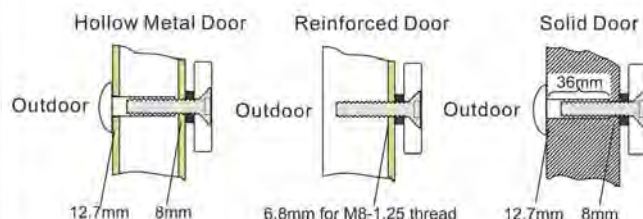


Drill the holes according to the marks.



Armature Plate

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



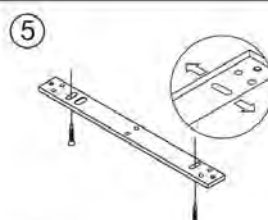
Drill a Ø8mm hole through door, on closing side enlarge to Ø12.7mm by a sexnut blot on the opening side.

Drill a Ø6.8mm hole and tap on closing side a M8x12.5 thread.

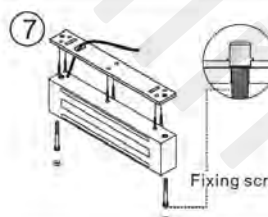
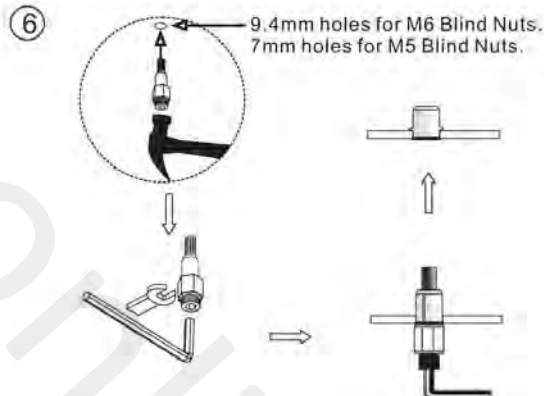
Drill a Ø8mm hole through door on closing side enlarge to Ø12.7mm, by a sexnut blot on the opening side. The depth is 36mm.

### Recommendation:

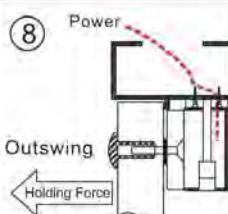
For Micro EM-locks (300 LBS), maximum thickness of door is 44 mm.  
For Mini EM-locks (600 LBS), maximum thickness of door is 50 mm.  
For Midi EM-locks (800 LBS), maximum thickness of door is 48 mm.  
For Maxi EM-locks (1200 LBS), maximum thickness of door is 46 mm.



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

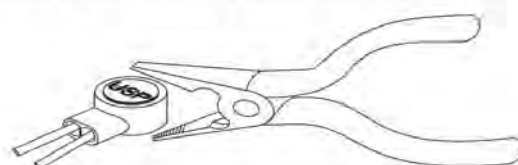


Use the screws to permanently mount the mounting plate, then mount the magnet with the fixing screws provided.



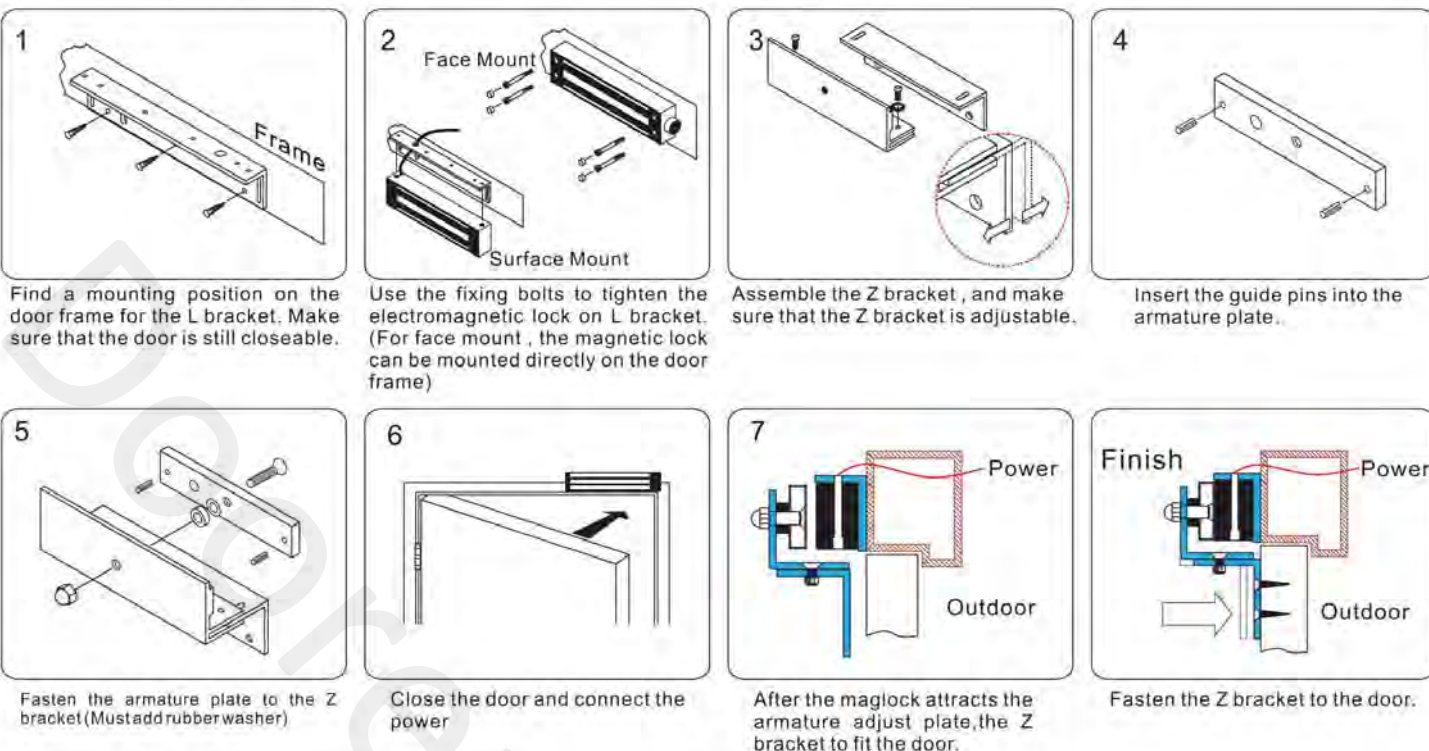
Connect the power and test the unit. Insert the anti-tamper caps into the holes of mounting screws.

## Butt Splice(IDC) Connector



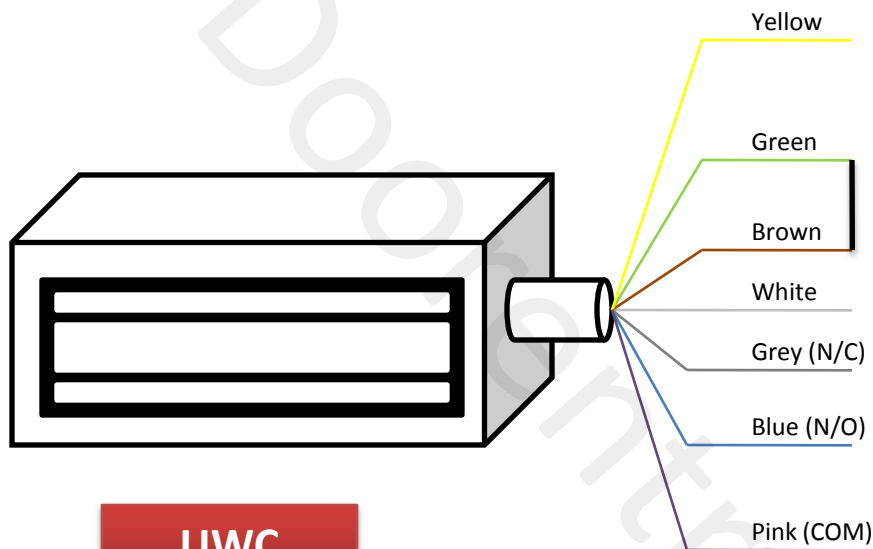
Using crimping or pliers and pressing the header of connector down to even position.

# LZ or Z bracket for inswing doors



## Connecting Diagram

Wire Leads	Voltage	Bond sensor output
<b>2C Wire Leads Single voltage</b> (Power input is polarity free)	<b>12 VDC: Black, Red</b>  <b>24 VDC: Black, White</b> 	
<b>4C Wire Leads: Dual voltage</b> (Power input is polarity free)	<b>Voltage Selection: 12 VDC</b>  <b>Voltage Selection: 24 VDC</b> 	
<b>5C Wire Leads Bond Sensor Output</b> (Power input is polarity free)		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.
<b>6C Wire Leads Dual voltage and Bond Sensor Output</b> (Power input is polarity free)	<b>Voltage Selection: 12 VDC</b>  <b>Voltage Selection: 24 VDC</b> 	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.
<b>7C Wire Leads Dual voltage and Bond Sensor Output</b> (Power input is polarity free)	<b>Voltage Selection: 12 VDC</b>  <b>Voltage Selection: 24 VDC</b> 	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.

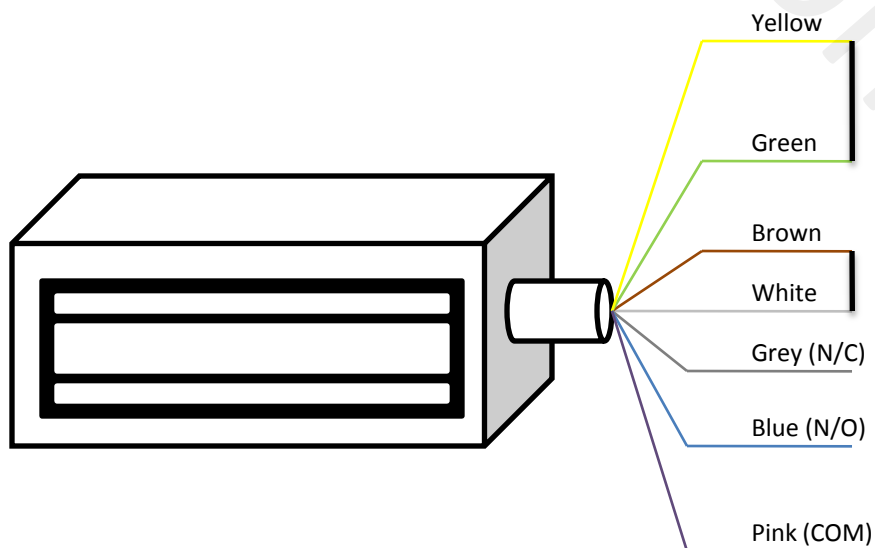


**UWC**

## **UGL1200NTBR** **WIRING OPTIONS**

### **24V WIRING**

Join the green and brown wires together. Use yellow for positive and white for negative.



### **12V WIRING**

Join the yellow and green wires together, to make positive. Join brown and white together to make negative.