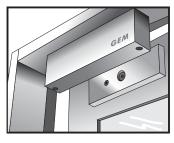
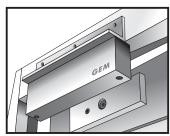


## **Optional Bracket**

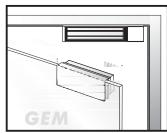
Identify the door swinging direction and inspect the door frame header to determine if bracket is required. A L- bracket, LZ-bracket or U-bracket (optional) may be required for the electromagnet depending on the frame header and swinging direction.



**Regular Installation** 

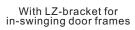


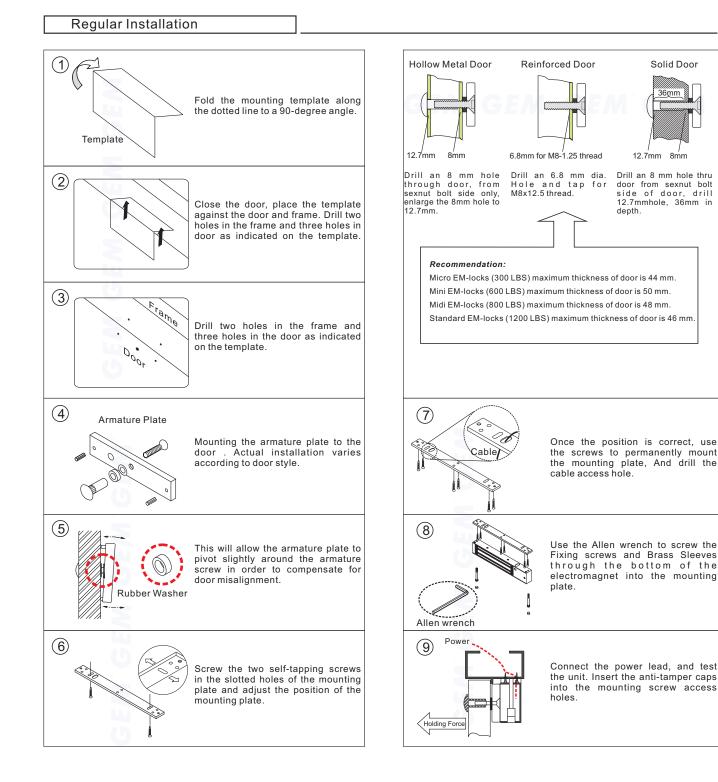
With L-bracket for narrow door frames



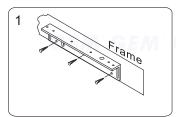
GEM

With U-bracket for frameless glass door leaf

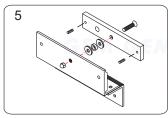




## With LZ bracket for In-swinging doors

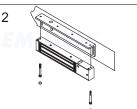


Find a mounting location on the door frame for the L bracket. Make sure that the door is still closeable.

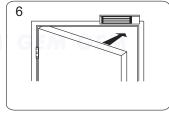


Put one rubber washer between armature plate and the Z bracket.

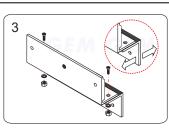
## Connecting Diagram



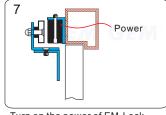
Tighten the electromagnetic lock on the L bracket by using the fixing screw.



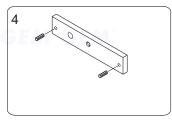
Close the door. Measure the correct position by bringing the armature plate close to the contact surface of the electromagnetic lock.



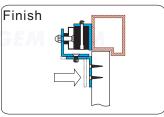
Assemble the Z bracket, and make sure that the Z bracket is adjustable.



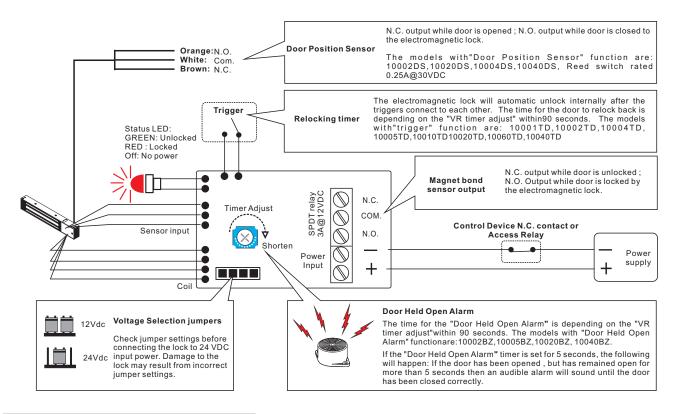
Turn on the power of EM-Lock, and let the armature plate bonds to the EM-lock. Adjust the position between the Z bracket and the door frame.



Insert the guide pins into the armature plate.



Once the position is correct, use the screws to permanently mount the Z bracket on the door frame. This should be the last step.



## **Trouble Shooting**

Problem	Possible Cause	Solution
Door does not lock	No power	Check to make sure the wires are securely tightened to the correct terminal block Check that the power supply is connected and operating properly Make sure the lock switch is wired correctly
Reduced holding force	Poor contact between electromagnet and armature plate	Make sure the lock switch is wired correctly. Make sure the electromagnet and armature plate are properly aligned Make sure the contact surfaces of the electromagnet and armature plate are clean and free from dust
	Low voltage or incorrect voltage setting	Ensure the electromagnetic lock is set for the correct voltage. Check for proper voltage at the electromagnetic locks input. If low, determine if the correct wire gauge is being used to prevent excessive voltage drop.
Sensor output is not functioning	A secondary diode was installed across the electromagnet	Remove any diode installed across the magnet for "spike" suppression. (The magnet is fitted with a metal oxide varistor to prevent back EMF)
	Misalignment between the reed switch and its magnet	Check the installation of armature with supplied template.