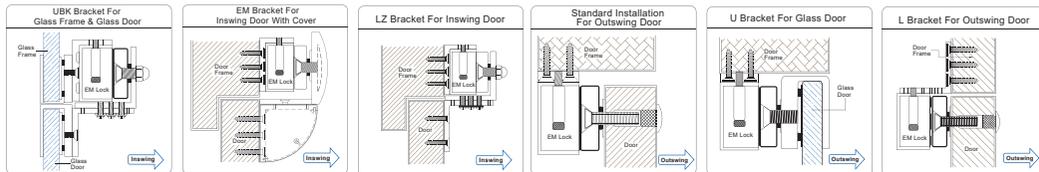
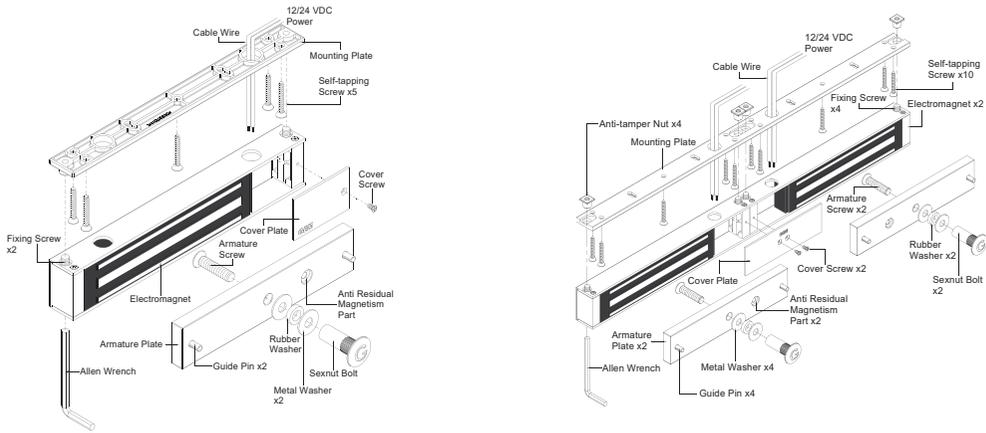


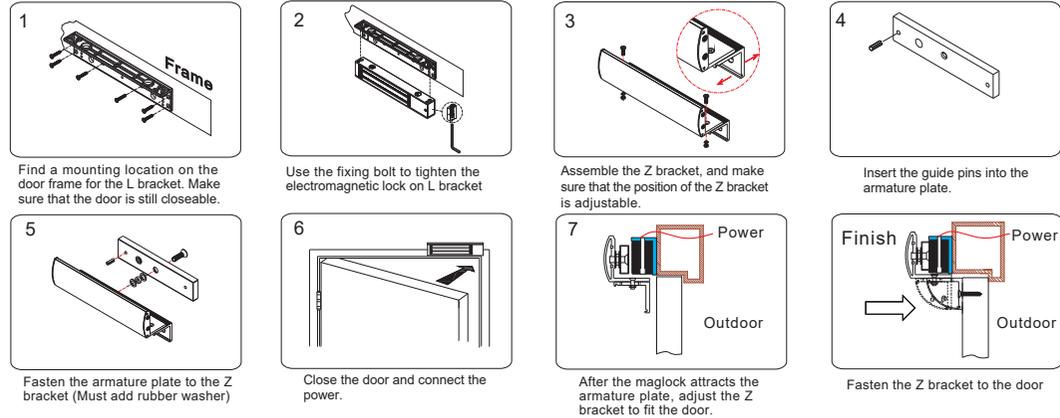
# GEM Indoor Series Electromagnetic Lock Installation Instruction

Spec/Model	Single Door				Double Door		
	GEM-300	GEM-600	GEM-800	GEM-1200	GEM-D600	GEM-D800	GEM-D1200
Holding Force	300lbs (136kg)	600lbs (272kg)	800lbs (363kg)	1200lbs (545kg)	600lbs (272kg)x2	800lbs (363kg)x2	1200lbs (545kg)x2
Voltage Input	12/24VDC	12/24VDC	12/24VDC	12/24VDC	12/24VDC	12/24VDC	12/24VDC
Current Draw	500mA/12VDC 250mA/24VDC	500mA/12VDC 250mA/24VDC	500mA/12VDC 250mA/24VDC	500mA/12VDC 250mA/24VDC	500mA/12VDC x2 250mA/24VDC x2	500mA/12VDC x2 250mA/24VDC x2	500mA/12VDC x2 250mA/24VDC x2

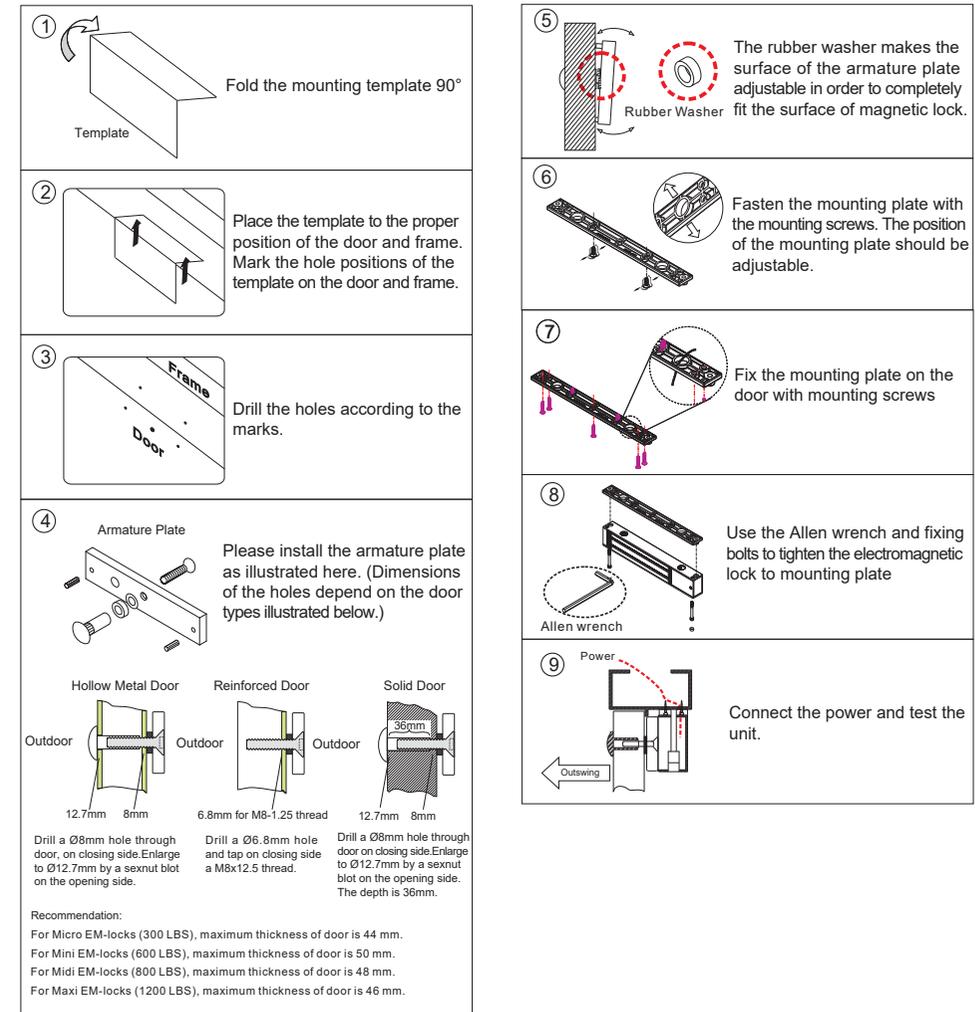
## Basic Installation Concept & Accessories



## LZ bracket for Inswing doors

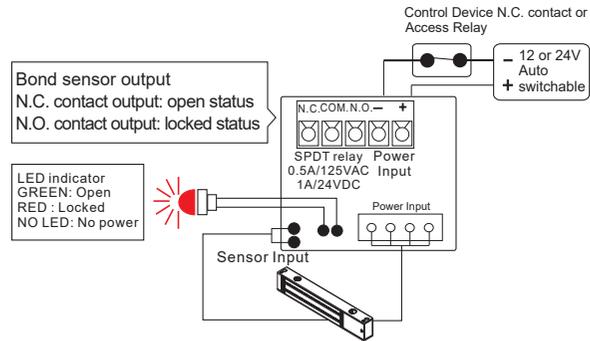


## Standard Installation

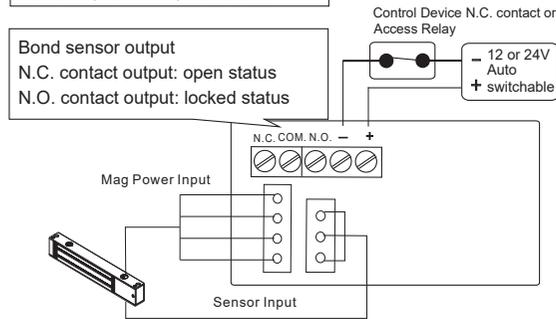


## Connecting Diagram

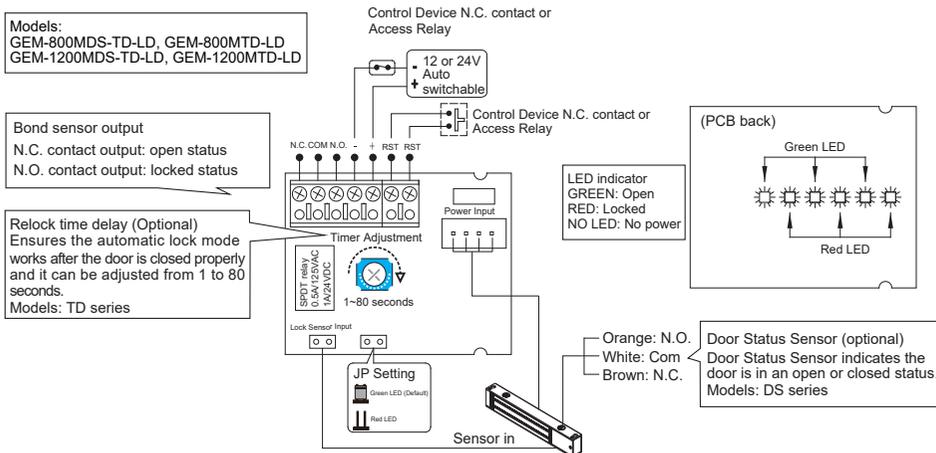
Model: GEM-300M



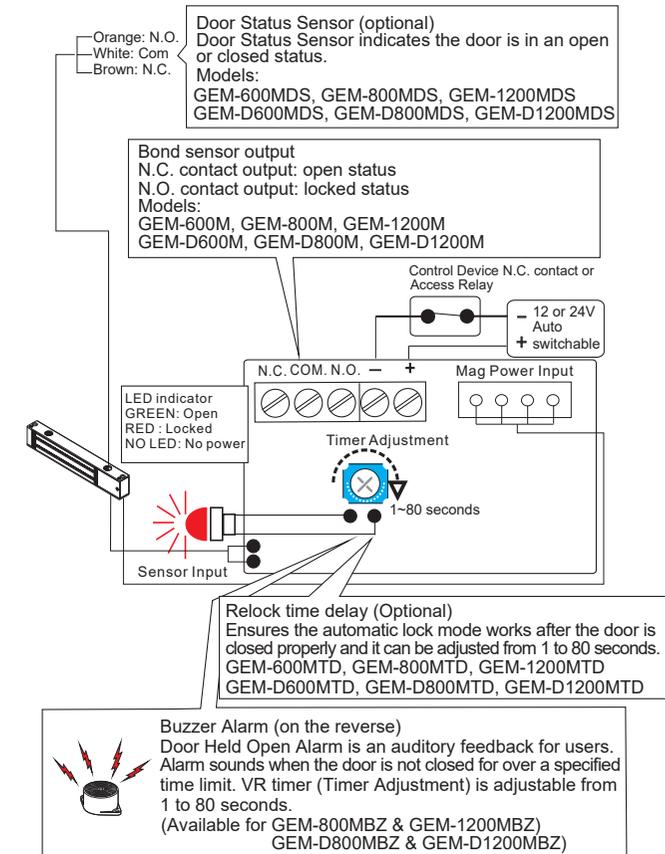
Models:  
GEM-300, GEM-600, GEM-800, GEM-1200  
GEM-D600, GEM-D800, GEM-D1200



Models:  
GEM-800MDS-TD-LD, GEM-800MTD-LD  
GEM-1200MDS-TD-LD, GEM-1200MTD-LD



## Connecting Diagram



## Trouble Shooting

Problem	Possible Cause	Solution
Door does not lock	No power	Make sure the wires are connected properly Check that the power supply is connected and works properly Make sure the lock switch is wired correctly (N.C.)
Low holding force	Poor contact between electromagnet and armature plate	Make sure if the armature plate is deformed Make sure if the rubber washer was used between magnet lock and armature plate 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 electromagnet 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 electromagnetic lock	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 armature plate and electromagnetic lock	Make sure the armature plate and electromagnetic lock are aligned correctly