

Important Safety Instruction

Secure the Magnetic lock body firmly to the door frame.

Our electromagnetic lock is shock resistant to unlimited door closures, so it is vital to check if the electromagnetic lock is secure firmly on the top door header to prevent it from falling and causing possible injury.

Do not tighten the armature plate tight against the door.

The armature plate must remain movable to allow surface alignment with the magnet face. The Magnetic Lock will lose holding force without this floating alignment.

Do not trim the rubber washer mounted on the head of the armature center bolt. Trimming this rubber will adversely effect the operation of magnetic lock.

Settings and Wiring :

EM5700 DSS PCBA

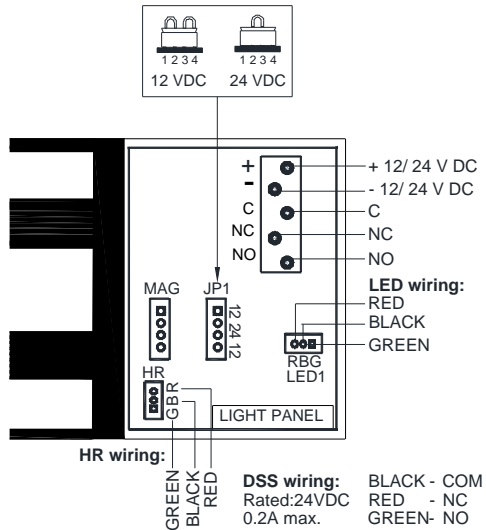


Figure 1

EM5700D DSS RIGHT SIDE PCBA

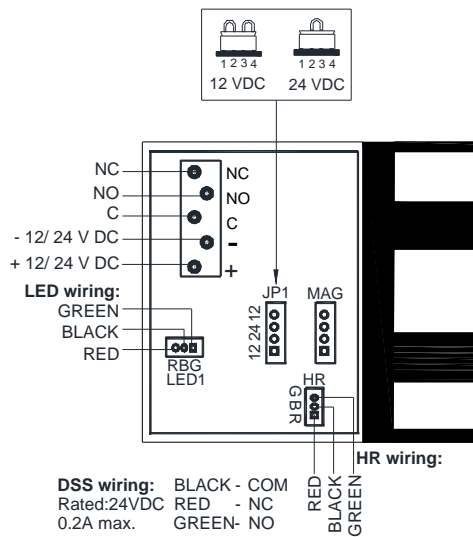


Figure 2

EM5700 DSS / EM5700D DSS

INSTALLATION

ANOTHER QUALITY PRODUCT

Wiring Instructions

For wiring installation, refer to Figure 1 and Figure 2.

The EM5700 DSS is a monitored single magnetic lock and the EM5700D DSS is a monitored double magnetic lock with 12 or 24 volt settings. Each magnetic lock has a broader light emitting diode display panel for better eye sight, The unit requires a filtered and regulated DC Power Source of correct voltage. The DC output of the power supply must NOT be connected to earth ground, but isolated to prevent shock and possible damage to the unit.

12VDC or 24VDC Power Wiring:

Remove the wiring cavity cover plate and select for the correct 12 VDC or 24 VDC wire jumper plug to be used.

These voltage shunts must be set before 12VDC or 24VDC is applied to the Electro-Magnetic Lock to prevent damage to the unit.

The (+) lead of the Power Source is connected to the RED wire and the (-) lead is connected to the BLACK wire. The operating switch or controlling contacts must be installed from the power source across the Magnetic Lock to reduce operating time of the Magnetic Lock to a minimum.

Power Input Requirements:

Power Input	EM5700 DSS	EM5700D DSS
12 VDC	0.53 A	2 × 0.53 A
24 VDC	0.26 A	2 × 0.26 A

Electro-Magnetic Lock Description:

The **EM5700 DSS / EM5700D DSS** magnetic lock runs on 12 or 24 V DC settings, with a built-in Hall IC Crystal to indicate **lock status** (normally open or normally closed) and a Door Status Sensor (normally open) to indicate door status. With a Light panel on the magnet housing and a dry SPDT output which changes state when lock is secure. The Relay output C is short to the relay output NO when the lock is secure and C is short to NC when the lock is not secure.

Light Panel Indicators:

System Status	Green light	Red light	Relay
Power Off	OFF	OFF	De-Energized
Power On-Door open	OFF	ON	De-Energized
Power On-Door close	ON	OFF	Energized

The Relay Contacts are rated at 24 volts at 2.0 Amps maximum. The Relay contact outputs are marked on the Printed Circuit Board.

Trouble Shooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
Door will not lock	No DC voltage to lock	Check power and wiring
	Loose wire	Check for correct voltage
	Wrong wiring	Check wirings connection
Reduced holding force	Bad physical contact between armature plate and face of magnet	Ensure mating surfaces are clean and in proper alignment and the armature plate floats freely
	Low voltage or wrong voltage setting	Check magnetic lock for low voltage or wrong voltage setting
Delay in door release	Circuit switch is not between magnetic lock and power source	Re wire circuit switch between magnetic lock and power source
	Secondary diode installed across magnetic lock	Remove this diode, voltage spike protection is on PCB.
Light Panel status is incorrect	Misalignment of armature plate	Check alignment of armature plate
	Hall Effect Switch located in wrong position into magnetic block	Reposition Hall Effect switch, contact manufacturer for instruction