

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.

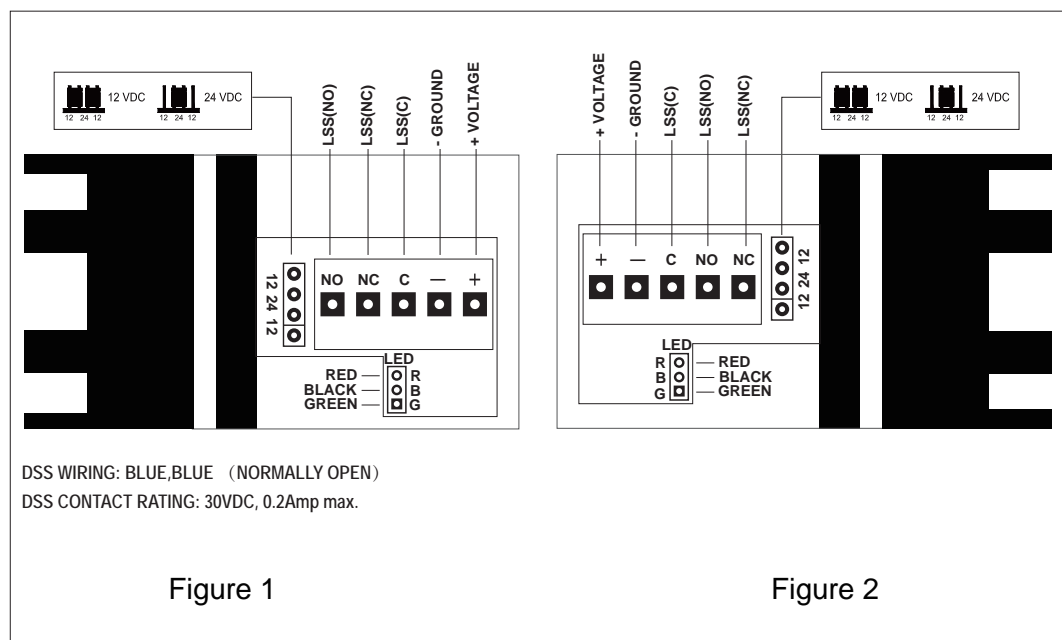
Do not tighten the armature plate tight against the door.

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 armature center bolt rubber head.

Trimming this rubber will adversely effect the operation of magnetic lock.

Settings and Wiring:



EM3500DSS/F & EM3500D DSS/F

INSTALLATION

ANOTHER QUALITY PRODUCT

Wiring Instructions.

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

12VDC or 24VDC Power Wiring:

Remove the wiring cavity cover plate and Choose for the correct voltage shunt usage on the PCBA. See Setting on Figure 1. Default factory voltage shunt is shunt in 24VDC.

These voltage shunts must be placed correctly before 12VDC or 24VDC power is supplied to the Electro-Magnetic Lock to prevent damage to the PCBA.

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 installs from the power source across the Magnetic Lock to reduce operating time of the Magnetic Lock to a minimum.

Power Input Requirements:

12VDC / 0.51 A max.

24VDC / 0.27 A max.

Electro-Magnetic Lock Description:

The EM3500DSS/F single and double swing surface mount electromagnetic lock operates on 12 or 24 VDC setting on a highly visible LED backlight. It has both Lock status sensor (LSS) and Door status sensor (DSS). Electromagnetic lock & armature plate are quality plated to operate over a million operation that instantly release to unlock when powered OFF without any residual magnetism. This new design has been tested to be fire rated for 3 hours and product has been classified to be environmental friendly.

Backlight 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 VDC, 1.0 A 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.
Backlight status is incorrect	Misalignment of armature plate	Check alignment of armature plate
	Reed switch located in wrong position into magnetic block	Reposition reed switch contact manufacturer for instruction