EM4500FS

Electro-Magnetic Lock

Wiring Instructions

Wiring Instruction Sheet No. 991109A

For Wiring Installation Refer to Figure 1.

The **EM4500FS** Electro-Magnetic Lock requires a filtered and regulated DC Power Source for optimal performance.

12VDC or 24VDC Power Wiring

Refer to Figure 1.

These wiring of the power must be connected correctly before 12VDC or 24VDC is applied to the Electro-Magnetic Lock to prevent damage to the unit.

Power Input Requirements:

12VDC	**0.35A**
24VDC	**0.18A**

Electro-Magnetic Lock Description:

The **EM4500FS** is a side mount or face mount Magnetic Lock with stainless steel housing and has a built-in voltage spike protection.

Installation Tips

Do not tighten the armature plate tight against the door.

The armature plate must be remained 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.

Trouble Shooting

Problem	Possible Cause	Solution
Door will not lock	No DC voltage to lock.	Check power supply and wiring to magnetic lock.
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. Check magnetic lock for low voltage.
Delay in door release	Secondary diode installed across magnetic lock.	Remove this diode. Voltage spike protection is embedded.

Maintenance

Contacting surface of the Electro-Magnet and Armature Plate must be kept free of contaminating materials. Surfaces should be cleaned periodically with a non-abrasive cleaner. Do not spray the Electro-magnet or Armature Plate surface with any chemicals such as lacquer, etc. This will cause serious problems with the release of the magnetic Lock and its Armature Plate resulting in serious safety problems.

EM 4500FS WIRING DIAGRAM

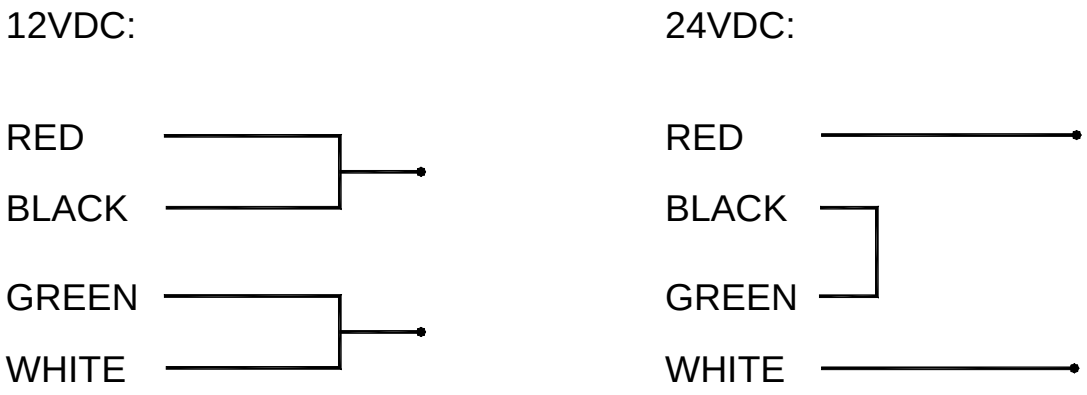

FIGURE 1