EM4700FS LSS
Electro-Magnetic Lock

Introduction:

The **EM4700FS LSS** stainless steel housing magnetic lock requires a filtered and regulated DC Power source for optimal performance.

The **EM 4700FS LSS** has a built-in Relay Switch. The functions are generated through three output wires as following:

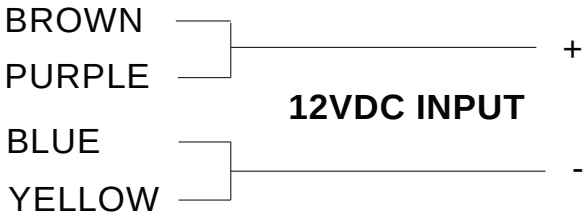
Red wire- Normally closed;	**Green wire- Normally open;**	**Black wire- Common.**
Relay Switch not Operated-	No Power on Magnetic Lock.	
	Power on Magnetic Lock and Door Open.	
Relay Switch Operated-	Power on Magnetic Lock and Door Closed.	
RELAY SWITCH CONTACT RATING:	Maximum Switching Voltage: 24VDC	
	Maximum Switching Current：1A	

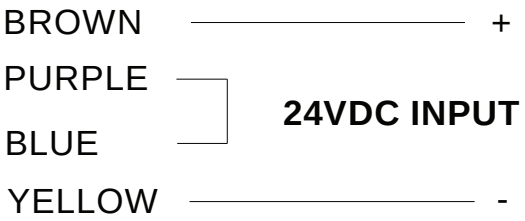
<u>These wiring of the power must be connected correctly before 12VDC or 24VDC is applied to the Electro-Magnetic Lock to prevent damage to the unit.</u>

Power input requirements:

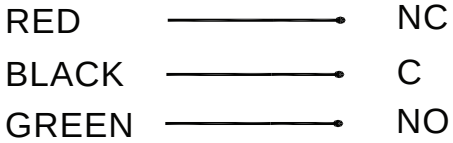
12VDC	**0.40A**
24VDC	**0.20A**

EM4700FS LSS WIRING DIAGRAM





RELAY SENSOR:



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 and 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.

Installation Tips

The **EM4700FS LSS** has unlimited operating life and receives a great number of shocks from door closing and opening, so it is important to secure the magnetic lock firmly on the door header to prevent possible screw loosening, resulting to falling of magnetic lock and causing injury.

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.
	Low voltage or wrong voltage setting.	Check magnetic lock for low voltage.
Reed Switch Status is incorrect	Misalignment of armature plate.	Check alignment of armature plate.

Mounting Illustration