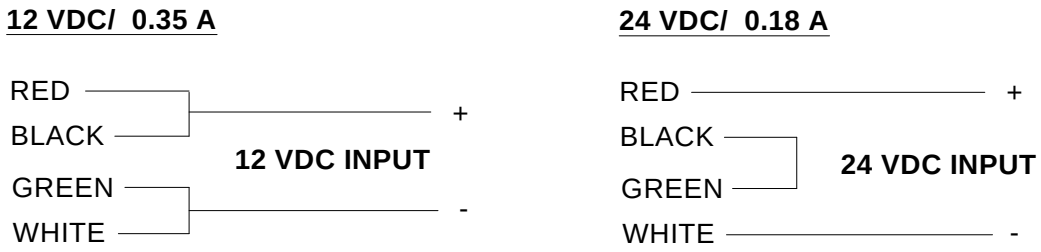
AAC-MGL
Magnetic Lock

Introduction:

- The **FEM 4500FS** electromagnetic lock casing is made of stainless steel.
- Voltage spike suppressor is embedded inside the electromagnetic lock to carry away unwanted high voltage spikes.
- The new **FEM 4500FS** can be install on single swing door or sliding door.
- The lock has no residual magnetism that would provide instant opening upon power cut-off.
- The electromagnetic lock should always be mounted on the interior secured side of the access.

Wiring and Power input requirements:



Warning: Misconnection of wiring will cause the MOV surge suppression inside the electromagnetic lock to fail. This will not be covered under warranty.

Installation Tips

The **AAC-MGL** 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 frame to avoid disengage to fall from loose screw and causing possible 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.

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.

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	Correct to desired voltage setting and power input requirement
Reed Switch Status is incorrect	Misalignment of armature plate.	Correct armature plate alignment.

Sample of Mounting Procedure