



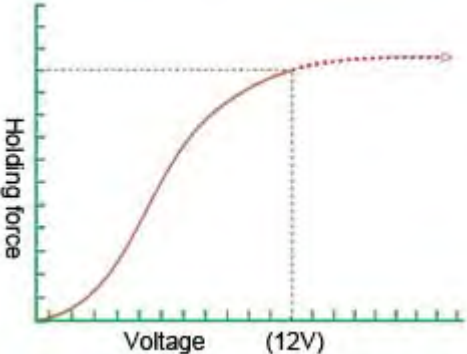

Magnet Features

The Electromagnetic Lock uses an electrical current to produce a magnetic force. When a current is passed through the coil, the electromagnet becomes magnetized. The door will be securely bonded when the electromagnet is energized holding against the armature plate

Access control systems are operated by one of the peripheral devices (ie. hand and fingerprint readers, keypad, card reader...etc) to identify the user whether access is permitted or not. The power will be automatically turned off by the user and gains access through a reader

The Electromagnetic Lock is a simple locking device that consists of an electromagnet and armature plate with no moving parts and it purely works due to the magnetic field. Therefore the electromagnetic lock is truly fail-safe (Power to lock). Thus, the electromagnetic lock is met with both security and fire safety requirements and is available for emergency exit doors

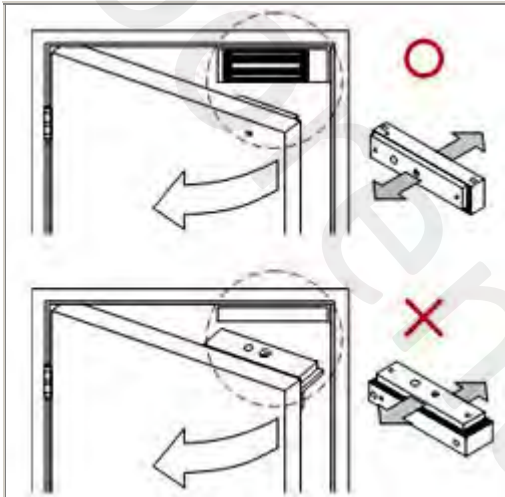
The locks are made with epoxy potting compound and is protected by this compound, which ensures a long life for the lock. With these above lock characteristics, the electromagnetic lock has become one of the most commonly used access control lock for security engineers

	<ul style="list-style-type: none"> When a current is passed through the coil, the electromagnet became magnetized in the result the door will be strongly bonded when the electromagnet is energized holding the armature plate. It is important to make sure the armature plate and the electromagnet align as closely as possible to ensure efficient operation of the electromagnetic lock
	<ul style="list-style-type: none"> Collinear Load Test is being currently used to measure the pulling force of the electromagnetic locks. This test is to slowly increase a mechanical force through the armature plate against the lock with the power <p>When the pulling force exceeds the lock's attraction, the armature plate will be separated from the electromagnet immediately so that is the equivalent pulling force of the electromagnetic locks. The direction of press pull must be collinear, which it makes the lock performance work more effectively</p>
	<ul style="list-style-type: none"> This diagram shows the attractive force and power consumption of the electromagnetic lock. Electromagnetic locks' attractive force is proportional to voltage in the result the force of attraction will not continue to increase when attractive force reaching a maximum. (Only voltage specified on this unit must be used. The user should carefully read and comply with the manufacturer's instructions before operating the device.)
	<ul style="list-style-type: none"> The Electromagnetic Lock is a simple locking device that consists of an electromagnet and armature plate with no moving parts. Therefore the electromagnetic lock is truly fail-safe. Thus, the electromagnetic lock is met both with security and fire safety requirements and is available for emergency exit doors

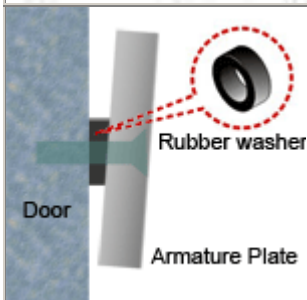


- The locks made with epoxy potting compound and used to protect the device ensuring a long life for the lock.

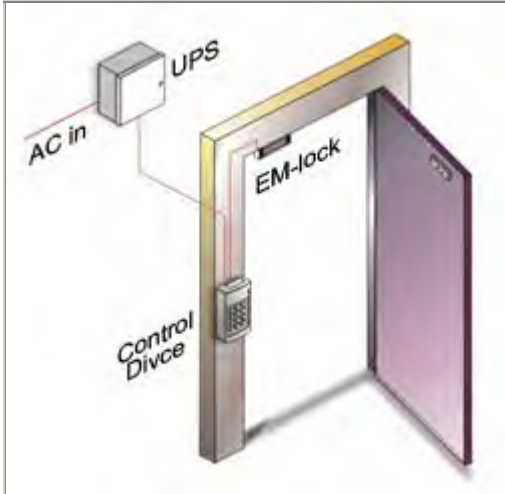
There are some suggestions and recommendations to allow you to implement its functionality:



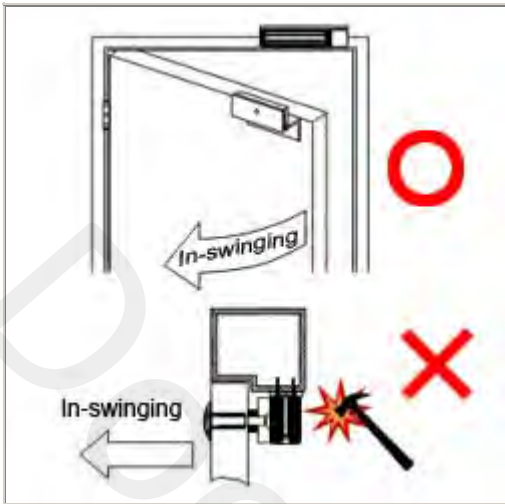
- The electromagnetic lock requires a face to face fitting as shown in Figure. Otherwise the holding force will be decreased (direction of hydraulic press poll must be **colinear**)



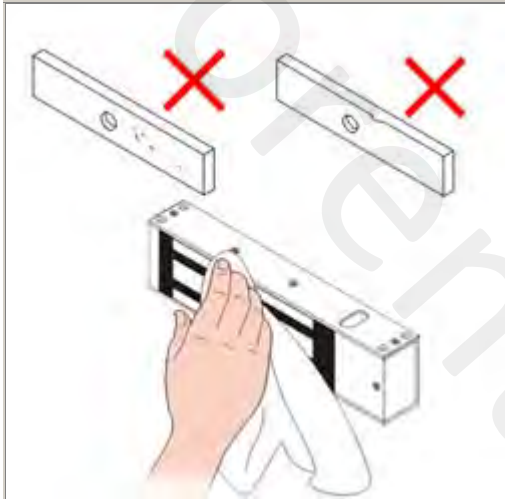
- Do not tighten the armature against the door leaf. Put one rubber washer between the armature and the door leaf. This will allow the armature and magnet in order to accommodate normal door and frame movement and the lock will work effectively between the armature and the door leaf



- All electromagnetic locks are "fail safe", therefore you may require a UPS (Uninterruptible Power Supply) or battery back-up to maintain security during a power failure



- The electromagnetic locks are suitable for outward-swing door and inward-swing door applications. For inward-wing door applications the locks should be fitted with L or ZL brackets



- Make sure the contact surfaces of the electromagnet and armature plates are clean and free from dust. Apply a light coat of a silicon lubricant to prevent rust and wipe away the excess