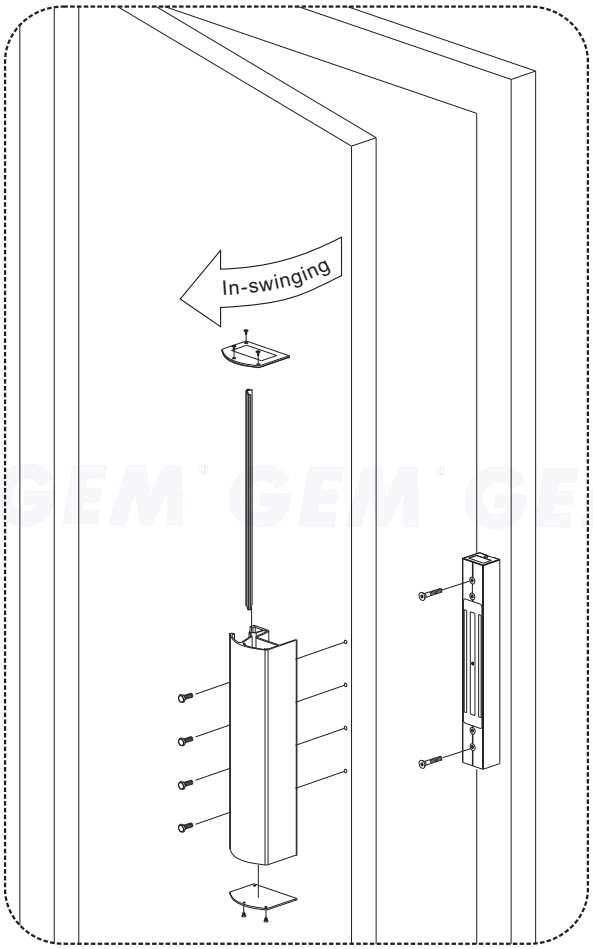
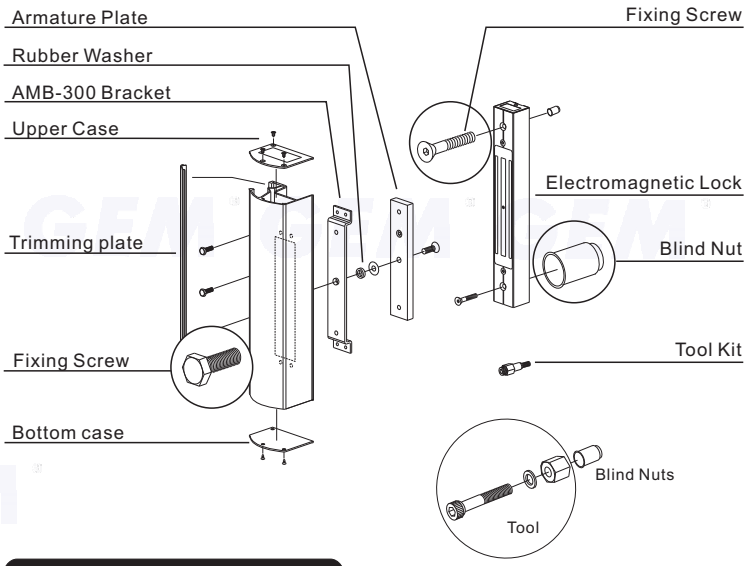
Electromagnetic Lock Installation Instruction (PH-300 / PH-600)

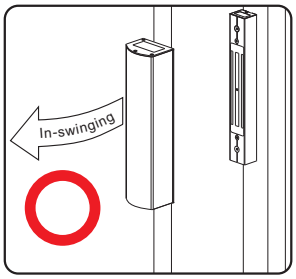


Armature Assembly ***Magnet Assembly***

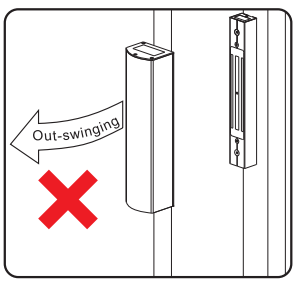


Specifications

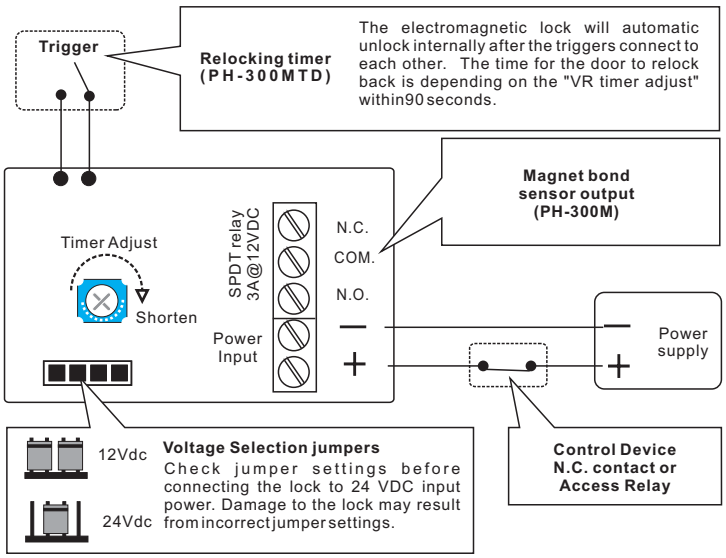
- Voltage Tolerance: 15%
- Current Draw:
  PH-300: 500mA@12Vdc ; 250mA@24Vdc
  PH-600: 500mA@12Vdc X 2 ; 250mA@24Vdc X 2
  (at temperature 20℃)
- Magnetic bond sensor monitor output (SPDT rated 3A@12V DC), remotely monitors the door lock or unlock status. (N.C. Output--Door opened; N.O. Output--Door closed)
- Operating Temperature: -10~55℃ (14~131℉)
- Humidity: 0~95% non-condensing.
- Lock's surface Temperature (when the power is on): ≦current temperature +20℃
- Holding Force:
  PH-300: 600 lbs (272 Kg)
  PH-600: 1200 lbs (545 Kg)
- Special Finishes for magnet and armature plate: Zinc
- Epoxy Potting Compound: E87252 (S), UL94V-0



Note: For security reason, it is recommended to install the PH series on the in-swinging doors instead of out-swinging doors from potential damage due to intruders or vandals.



Connecting Diagram



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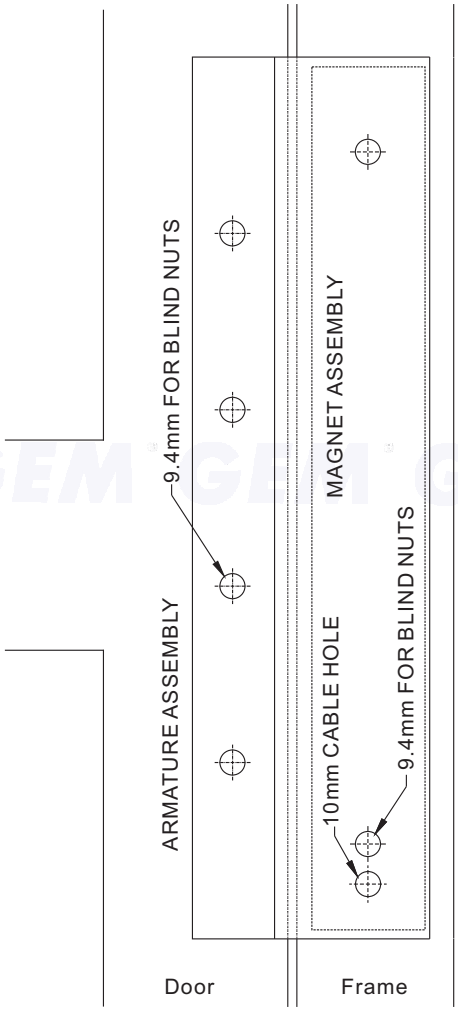
Regular Installation



Installation Instructions:

1. Close the door and make sure the door and the door frame are at the same level and same height, otherwise, it is necessary to add extra iron boards to make the door or the door frame to the same level.

2. Place the template and locate position on door/frame at desired mounting location.

3. Drill 9.4mm diameter holes on the door /door frame at indicated locations. (4 holes for Armature Assembly and 2 holes for Electromagnetic Assembly) Determine optimal location then drill a hole on the door frame for the lock power cable.

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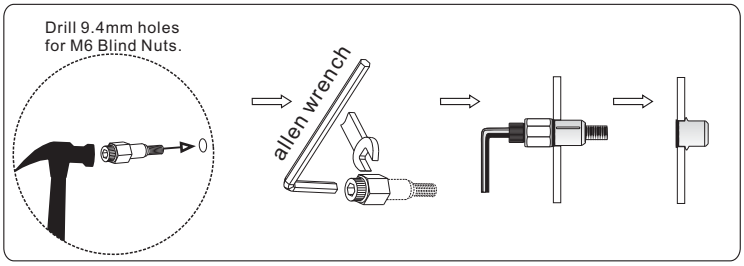
4. Install blind nuts into the holes. (See the installations diagram below).

5. Pull out the electrical wire of ***Magnet Assembly***

6. After connecting the Magnet Assembly with the electrical wire, install it on the door frame. Install the ***Armature Assembly*** on the door. Switch on the power. (12VDC or 24VDC).

7. Test the Electromagnetic lock system by closing the door. If the system cannot attach to each other properly, use 5mm Allen wrench to adjust the position of the Armature Assembly.

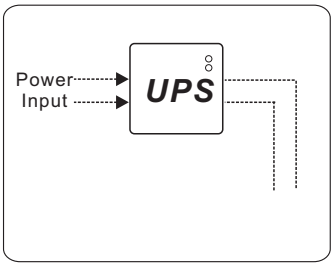


Insert two Blind Nuts into separate holes, one for each fixing screw.

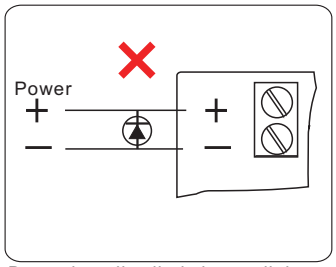
Use the allen wrench. To slowly tighten the Blind Nut. (Don't turning over)

This compress the Blind Nut so that it remains permanently fixed in the frame.
Remove the tool.

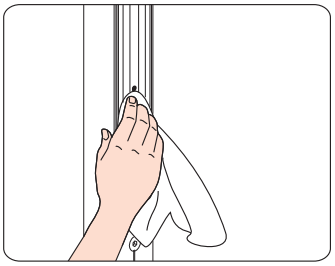
Important Notes



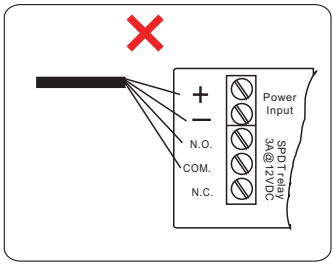
The electromagnetic locks are fail-safe and will require a power supply equipped with battery back up when power outages may interfere with desired security.



Do not install a diode in parallel with any magnetic lock. A diode will cause a delay when releasing the door and residual magnet to occur.



Apply a light coat of a silicon lubricant to prevent rust. Wipe away the excess.



Do not run power wires and signal wire in the same cable or conduit.

Trouble Shooting

Problem	Possible Cause	Solution
Door does not lock	No power	Check to make sure the wires are securely tightened to the correct terminal block
		Check that the power supply is connected and operating properly
		Make sure the lock switch is wired correctly
Reduced holding force	Poor contact between electromagnet and armature plate	Make sure the lock switch is wired correctly.
		Make sure the electromagnet and armature plate are properly aligned
		Make sure the contact surfaces of the electromagnet and armature plate are clean and free from dust
	Low voltage or incorrect voltage setting	Ensure the electromagnetic lock is set for the correct voltage.
		Check for proper voltage at the electromagnetic locks input. If low, determine if the correct wire gauge is being used to prevent excessive voltage drop.
Sensor output is not functioning	A secondary diode was installed across the electromagnet	Remove any diode installed across the magnet for "spike" suppression. (The magnet is fitted with a metal oxide varistor to prevent back EMF)
	Misalignment between the reed switch and its magnet	Check the installation of armature with supplied template.

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