



### ● Features

- Hidden-Magnet design
- High reliability
- Fail-safe (Power to Lock)
- Aluminum anodized casing
- MOV provides spike and surge protection.
- Adjustable mounting plate for easy installation.
- Dual voltage 12 or 24 VDC (selectable).
- Anti-Residual magnetism function.

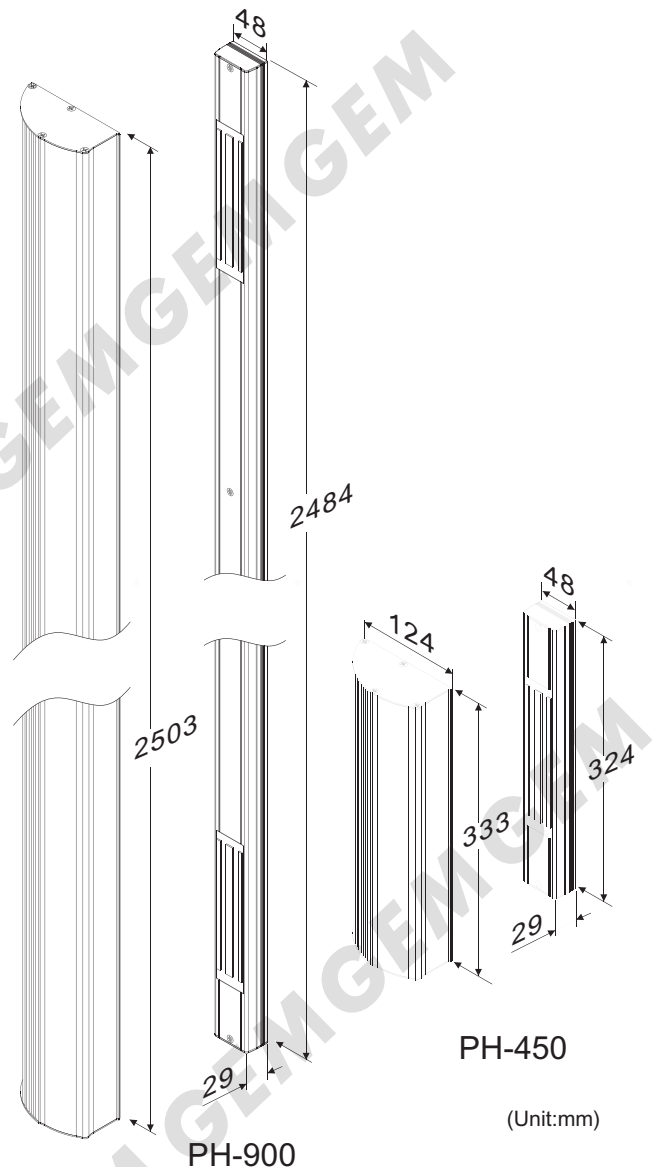
### ● Statement

The PH-450 and PH-900 series retain all the great features of GEM's other electromagnetic locks and have proven performance. They are a combination of the latest technologies with a new design that hides the armature plate in an enclosure that serves as a door handle. The electromagnet itself is installed in a vertical direction on the door frame. It is most suitable for metal doors and door frames and can be positioned on any type of inwards swing door.

Installation is simple and requires no special tools. The PH-450 and PH-900 can be mounted directly onto the door and door frame with the necessary fasteners provided.

The PH-450 has a holding force of up to 600 lbs and the PH-900 has two electromagnets which produce a total holding force of up to 1200lbs. The PH-900 is also designed to be installed on a door up to 2.5m tall. Both the PH-450 and PH-900 have optional variants built-in with bond and door-status sensors to detect if the door is locked or unlocked and if the the door is open or closed

### ● Dimension



### ● Specification

- Operating Voltage: 12/24 VDC
- Current Draw:  
PH-450: 500mA/12VDC; 250mA/24VDC  
PH-900: 500mA/12VDCx2;250mA/24VDCx2  
(at temperature 20°C)
- Magnetic bond sensor output SPDT rated:  
0.5A/125VAC, 1A/24VDC
- Operating Temperature: -10~55°C (14~131°F)
- Humidity: 0~95% non-condensing.
- Holding Force:  
PH-450 PH-450M: Up to 600 lbs (272Kg)  
PH-900 PH-900M: Up to 600 lbs x2 (272Kg x2)
- Special Finishes for magnet and armature plate: Zinc plated
- Epoxy Potting Compound: E87252 (S) , UL94V-0

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### ● Operating Features

PH-450MTD  
PH-900MTD Relock Time Delay

Ensure automatic locking after the door is closed properly. Relock time delay can be adjusted from 1 to 80 seconds.

Door status sensor detects if the door is closed or open. Available in PH-450MDS-TD and PH-900MDS-TD.  
Reed max. rating: 0.2A/12 VDC.

PH-450M/PH-900M  
Magnetic bond sensor output  
SPST relay: 1A/24VDC

Power Input

Control Device

Power supply

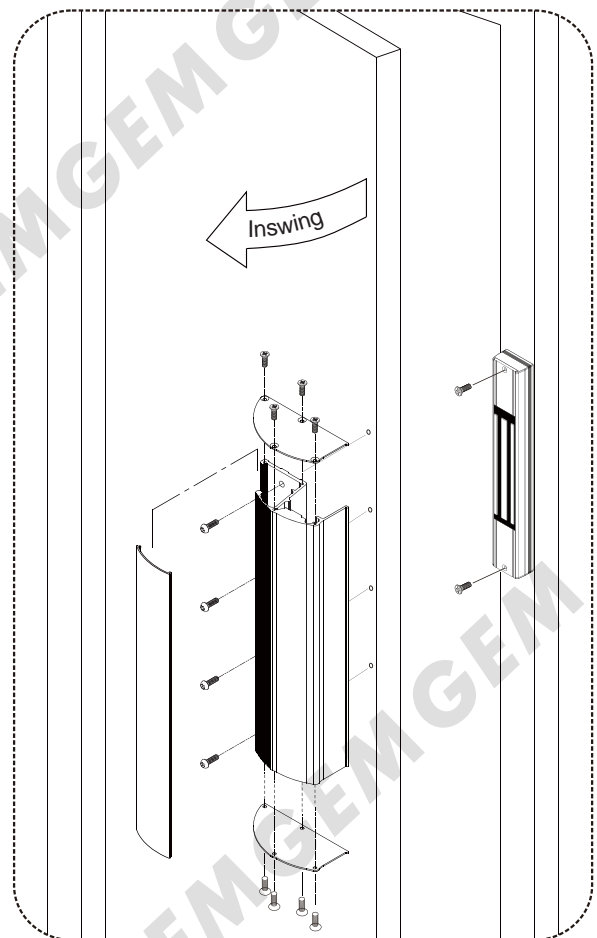
Voltage Selection jumpers

12 VDC

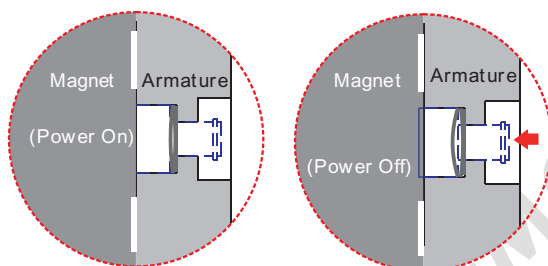
24 VDC

Check jumper settings before connecting the lock to 24 VDC input power. Damage to the lock may result from incorrect jumper settings.

### ● Application



### ● Unique Anti-Residual Magnetism Design



Unique Anti-Residual Magnetism Design

Our electromagnetic locks feature Anti-Residual Magnetism (ARM) which ensures the door can be opened without any resistance from leftover magnetism imparted to the armature plate.

### ● Warranty

The product is warranted against defects in material and workmanship while used in normal service for a period of 5 years from the date of sale to the original customer. The GEM policy is one of continual development and improvement; therefore GEM reserves the right to change specifications without notice.

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