

# Electromagnetic Locks

## Indoor FDH Series (Full Length Housing)

Stylish, Safe, and Secure



**Horizontal Configuration**  
(For Single Door)



**Horizontal Configuration**  
(For Double Door)



**FDH Series with LED**

### **Vertical Configuration**

(For Single Door - high ceiling door application)



The FDH series electromagnetic locks are furnished in full-length housings to provide door security and aesthetic appearance. Housings can be selected in vertical or horizontal configurations and available in single or double door versions. Customers can cut the lock housing length based on their specific door size or the size of the door opening. The FDH series has selections of 800 lbs, 1200 lbs, 800 lbs x 2 or 1200 lbs x 2 holding force.

### **Standard Features**

- Full length housing for vertical or horizontal configurations
- Automatic voltage selection 12/24 VDC
- Enhance door safety and aesthetically attractive
- Built-in bond sensor
- No residual magnetism
- Reversible magnet for right or left handed doors (For FDH-L45M Series Only)
- Aluminum anodized housing (US28)

### **Standard Options**

- Built-in door status sensor
- Bi-color status LED indicator
- Relock time delay

### **Patents, Approvals, and Listings**

- NF S 61-937 Compliant  
(For unmonitored models)

## Indoor FDH Series Electromagnetic Locks (Full Length Housing)

| Door Type                                          | Models                                                                                                                                                                                                                 | Holding Force (lbs) | Full Length      | Configuration     |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------|-------------------|
| Single Door                                        | FDH-M39M                                                                                                                                                                                                               | 800                 | 39 3/8" (1000mm) | Horizontal        |
|                                                    | FDH-M45M                                                                                                                                                                                                               | 800                 | 45" (1143mm)     |                   |
|                                                    | FDH-L45M                                                                                                                                                                                                               | 1200                | 45" (1143mm)     |                   |
| Double Door                                        | FDH-M90M                                                                                                                                                                                                               | 800 x 2             | 90" (2286mm)     | Double Horizontal |
|                                                    | FDH-L90M                                                                                                                                                                                                               | 1200 x 2            | 90" (2286mm)     |                   |
| Single Door<br>(For high ceiling door application) | FDH-M96M                                                                                                                                                                                                               | 800 x 2             | 96" (2438mm)     | Vertical          |
|                                                    | FDH-L96M                                                                                                                                                                                                               | 1200 x 2            | 96" (2438mm)     |                   |
| Standard Options                                   | ~ DS: Door Status Sensor<br>~ TD: Relock Time Delay<br>~ DT: Door Status Sensor + Relock Time Delay<br>~ TD-LD: Relock Time Delay + LED Indication<br>~ DT-LD: Door Status Sensor + Relock Time Delay + LED Indication |                     |                  |                   |

### Notes:

Standard FDH models include a bond sensor.

## Functions for Indoor FDH Series Electromagnetic Locks

### Large, Bi-Color Status LED Indicator (Option)

Included on bond sensor option, the visual LED indicates that door is locked or unlocked. Green: Unlocked; Red: Locked

### Armature Design

Mechanical kick-off device on armature plate ensures no residual magnetism.

### Bond Sensor (Option)

Indicates door locked and unlocked. SPDT rated: 0.5A/125VAC, 1A/24VDC

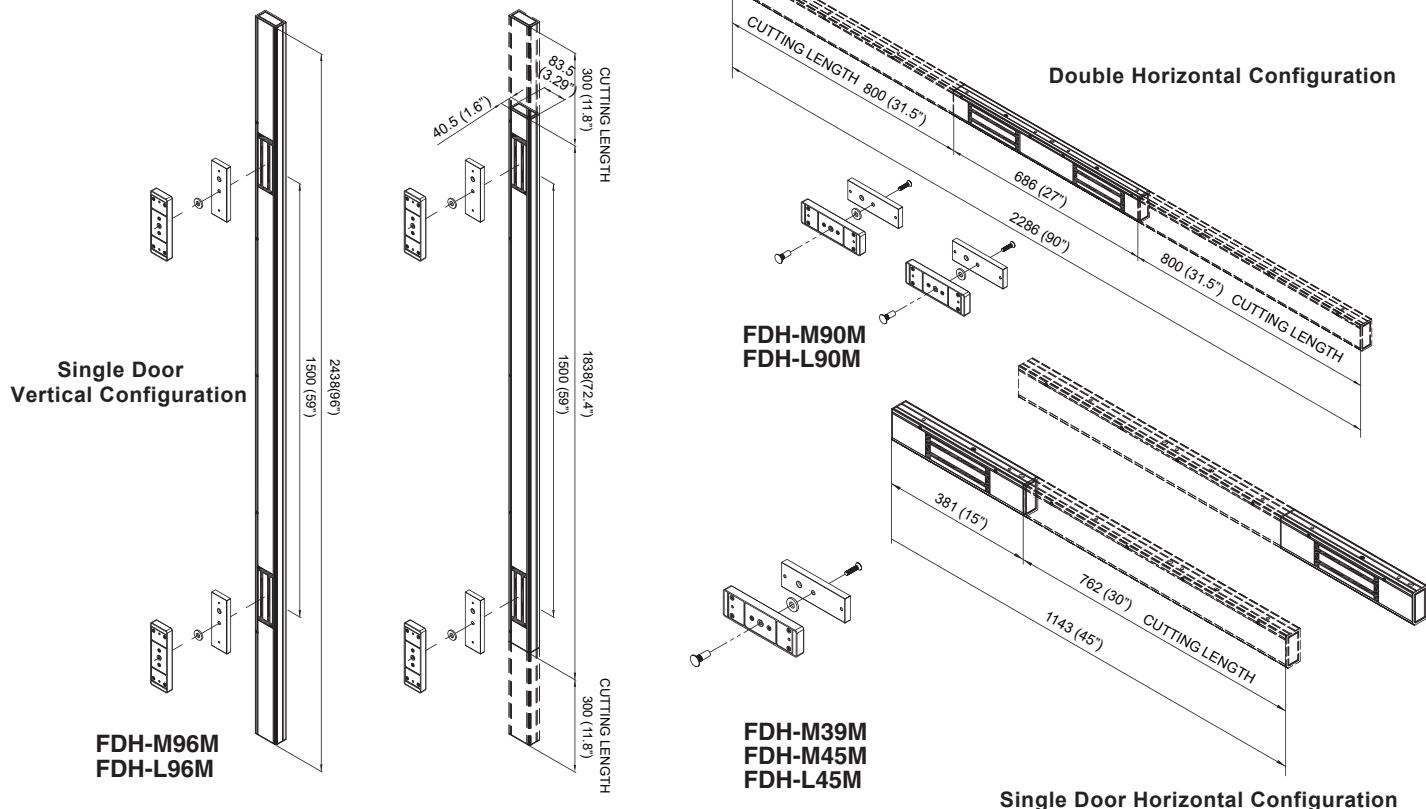
### Relock Time Delay (Option)

Field adjustable relock time delay of 1~80 seconds. Instant release with adjustable relock time.

### Door Status Sensor (Option)

Indicates door open and door closed. Rated: 0.2A/12VDC

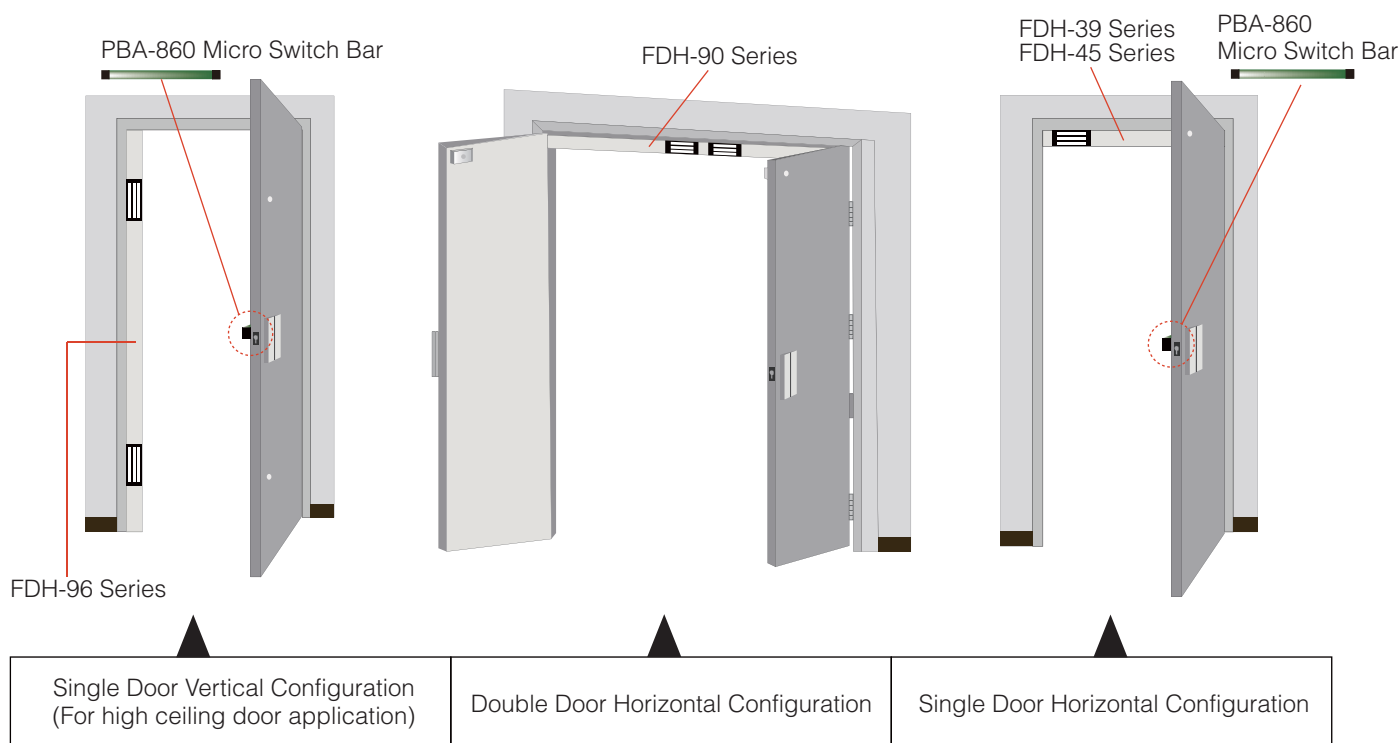
## Dimensions



If the FDH housing exceeds the intended position, you may trim at your own discretion. Above please review all diagrams showing the recommended length.

## Applications

GEM's full length magnetic lock housings are furnished complete with aluminum alloy finishing covers. These housings are offered in three configurations as shown in diagrams below:



### 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 client. The GEM policy is one of continual development and improvement; therefore GEM reserves the right to change specifications without notice.