Electromagnetic Locks

# Indoor GEM Series

## New Style Mounting Plate Design and Patented

c UL us LISTED

RoHS Compliant

CE

NF S 61-937

The GEM series electromagnetic locks use a new style mounting plate and patented. The mounting plate is designed with increased thickness for the screw hole at each end to secure the lock body with more stability and strength. The GEM series can be installed on various types of doors or door frames with optional auxiliary mounting brackets.

### Standard Features

- Reversible maget for left or right handed doors (For single magnet, unmonitored models)
- New style mounting plate with increased immobility (Patented)
- Aluminum anodized casing (US28)
- MOV prevents spike and surge current
- Automatic voltage selection 12/24 VDC
- No residual magnetism

### Standard Options

- Bi-color status LED indicator (Available with standard/ square/large configurable red/green LED)
- Built-in bond sensor and door status sensor
- Relock time delay
- Door held open alarm

### Patents, Approvals, and Listings

- UL 10B, UL10C, ULC S104 listed : R21198
- NF S 61-937 Compliant (For unmonitored models)
- CE: EC651213



GEM®

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## Indoor GEM Series Electromagnetic Locks

GEM-300

GEM-600

GEM-800

GEM-1200

GEM-D600

GEM-D800

GEM-D1200

### Large, Bi-Color LED & Reset Input for GEM-800-LD/ 1200-LD Series

The GEM-800-LD/1200-LD series electromagnetic locks feature a configurable large, visible red/green LED that provides better visibility and indicates door is locked or unlocked. Reset input is also included for independent lock control.
Recommended for use on outswing doors.

LED dimensions: 37.5 (W) x 15 (H) mm
Models: GEM-800-MTD-LD, GEM-800-MDS-TD-LD
GEM-1200-MTD-LD, GEM-1200-MDS-TD-LD

### Square LED Option Available for GEM Series Electromagnetic Locks

GEM series electromagnetic locks offer a square LED option that gives a more clear indication of lock status.

LED dimensions: 15(W) x 15(H) mm


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## New Style Mounting Plate (Patented)

The mounting plate thickness is increased at each end where screw is attached to secure the magnet. Available with 2 types of mounting plates.

**Screw Hole at Each End of Mounting Plate**

Mounting plate thickness at screw hole varies with the models. (GEM-300: 8mm; GEM-600/800/D600/D800/D1200: 10mm; GEM-1200: 13mm)

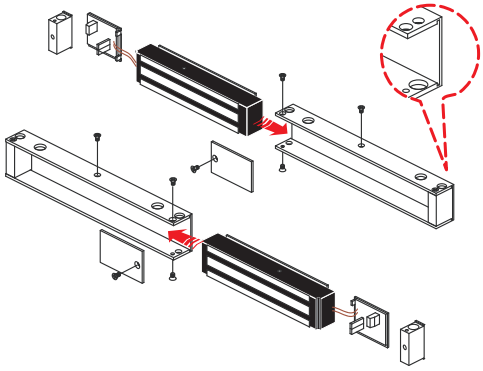
**Mounting Plate Type**

For GEM -300/D600/ D800/D1200

For GEM-600/800/1200

## Reversible Installation (For single magnet, non-monitored models)

Magnet can be reversed depending on whether it is used for right or left handed doors.



## Functions for Indoor GEM Series Electromagnetic Locks

**Armature Design**
Mechanical kickoff device on armature plate ensures no residual magnetism.

**Screw Installation Design**
The built-in mounting screw of the magnet saves time on tapping, allowing easy installation.

**Bond Sensor (Option)**
Indicates door locked and unlocked. SPDT rated: 0.5A/125VAC, 1A/24VDC

**Bi-Color Status LED Indicator (Option)**
The visual LED indicates that door is locked or unlocked.
The large, configurable bi-color LED is available for GEM-800-LD/1200-LD series.
Green: Unlocked, Red: Locked

**Door Held Open Alarm (Option)**
Alarm for prolonged opening of the door. Time is adjustable from 1 to 80 seconds.

**Relock Time Delay (Option)**
Field adjustable relock time delay of 1~80 seconds. Instant release with adjustable relock time. Timer starts when power is applied.

**Door Status Sensor (Option)**
Indicates door open and closed. Rated: 0.2A/12VDC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# Indoor GEM Series Electromagnetic Locks

| Models | Holding Force (lbs) | Voltage (VDC) | Standard Options | Optional Brackets | | | |
|---|---|---|---|---|---|---|---|
| | | | | Narrow Frame/ Outswing Door | Inswing Door | | Glass Door |
| **Single Magnet** | | | | | | | |
| GEM-300 | 300 | 12/24 | M | L-GEM-300 | LZ-GEM300 | – | – |
| GEM-600 c UL us LISTED | 600 | 12/24 | M, ML,MTD, MDS, MDS-TD | L-GEM-600<br>L-GEM-600AU | LZ-GEM-600<br>LZ-GEM-600AU | Z-GEM-600 | UBK-013 Series<br>UBK-600G Series |
| GEM-800 c UL us LISTED | 800 | 12/24 | M,ML, MTD, MDS, MDS-TD, MTD-LD MDS-TD-LD, MBZ | L-GEM-800<br>L-GEM-800AU | LZ-GEM-800<br>LZ-GEM-800AU | Z-GEM-800 | UBK-013 |
| GEM-1200 c UL us LISTED | 1200 | 12/24 | M, ML,MTD, MDS, MDS-TD, MTD-LD MDS-TD-LD, MBZ, MDS-BZ | L-GEM-1200<br>L-GEM-1200AU | LZ-GEM-1200<br>LZ-GEM-1200AU | Z-GEM-1200 | – |
| **Double Magnets** | | | | | | | |
| GEM-D600 c UL us LISTED | 600 x 2 | 12/24 | M,ML, MTD, MDS, MDS-TD | L-GEM-D600<br>L-GEM-D600AU | LZ-GEM-D600<br>LZ-GEM-D600AU | – | – |
| GEM-D800 c UL us LISTED | 800 x 2 | 12/24 | M, ML,MTD, MBZ | L-GEM-D800<br>L-GEM-D800AU | LZ-GEM-D800<br>LZ-D800AU | – | – |
| GEM-D1200 c UL us LISTED | 1200 x 2 | 12/24 | M, ML,MTD, MDS, MDS-TD, MBZ | L-GEM-D1200<br>L-GEM-D1200AU | LZ-GEM-D1200<br>LZ-GEM-D1200AU | – | – |

**Notes:**

Standard models are all unmonitored.

For more information on optional brackets or other mounting accessories, please refer to other GEM catalogues.

M: Bond sensor & Bi-color status LED indicator

ML: Bond sensor & Bi-color square LED indicator

DS: Door status sensor

TD: Relock time delay

BZ: Buzzer alarm (door held open alarm)

LD: Configurable large and visible red/green LED for better visibility; reset input for independent lock control

M, DS, and MDS options passed UL Fire Tests of Door Assemblies.

**Warranty**

The product is warranted against defects in material and workmanship while used in normal service for a period of 2 year 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.


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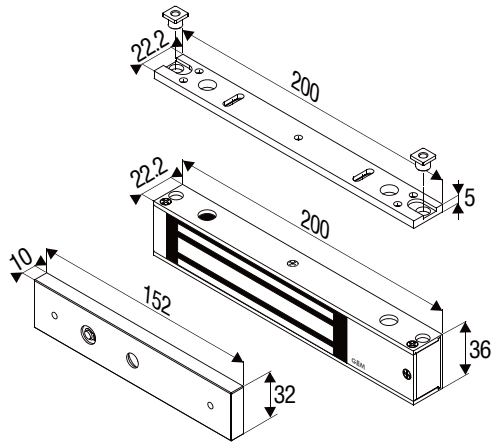
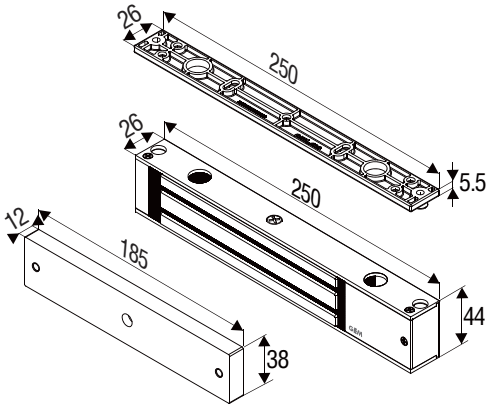
# Dimensions

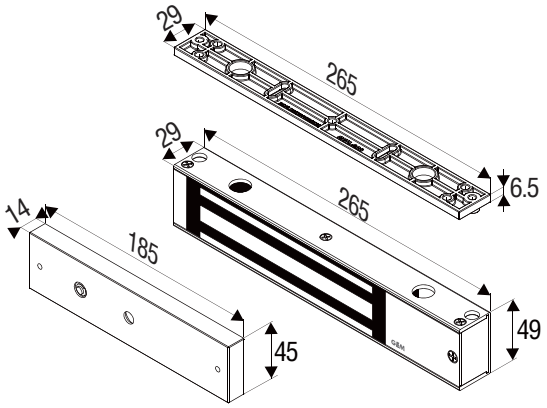
**GEM-300**



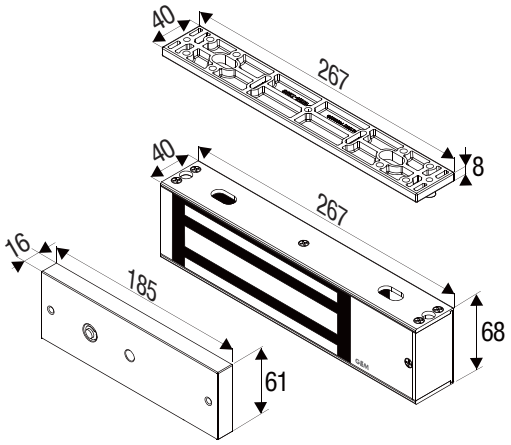

**GEM-600**



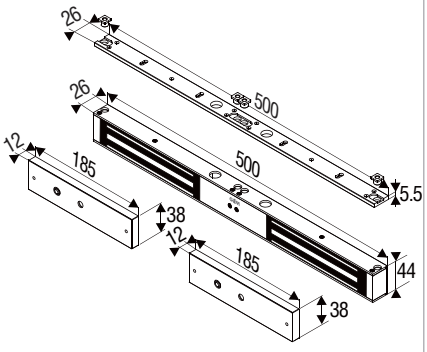

**GEM-800**




**GEM-1200**




**GEM-D600**

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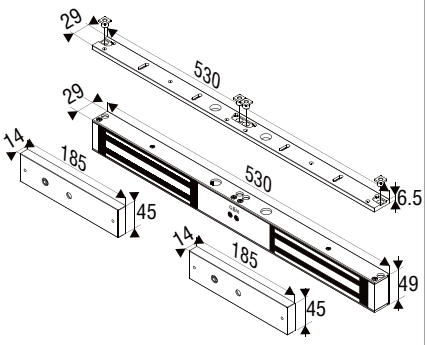
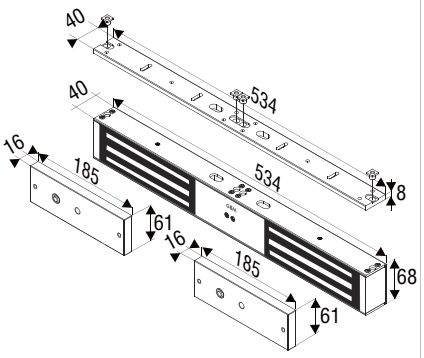



**GEM-D1200**




All dimensions in mm



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