

# Electromagnetic Locks

## **Weatherproof Series**

The Ultimate in GEM Electromagnetic Locks  
for Indoor/Outdoor Security



The GEM family of Weatherproof series electromagnetic locks are specifically designed for high profile openings that require less obtrusive surface mount lock with aesthetically superior appearance. All of them have a stainless steel housing and are sealed with fire-rated epoxy for weatherproof operation. They are available for surface and face mount installations with a wide range of brackets for an easy installation on any kind of doors and door frames.

The smallest GL-80F series is specially designed for closets, cabinets, drawers or lockers applications for security and ease of life.

### **Standard Features**

- Weatherproof, stainless steel housing
- MOV prevents spike and surge current
- No residual magnetism
- For indoor/outdoor security

### **Standard Options**

- Built-in bond sensor
- Built-in door status sensor

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

- UL 10B, UL 10C, ULC S104 listed: R21198
- UL 1034 & 294 listed: SA44784  
(GL-1200S, GL600-S related models)
- CE: EC671705-01

#### **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.



## New Style Mounting Plate Design (For N10001ST/N10010ST/GL1200-FS-IOTB)

New style mounting plate thickness is increased at each end where screw is attached to secure the magnet. 2 Types of new style mounting plate are available.

### Features

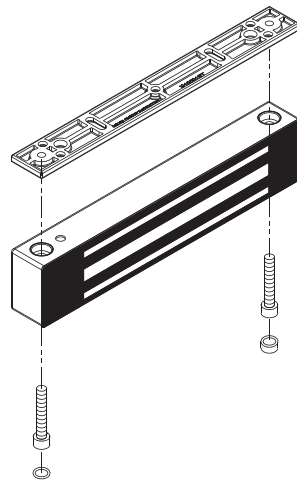


Mounting plate thickness is increased to 10 mm at the screw hole at each end.

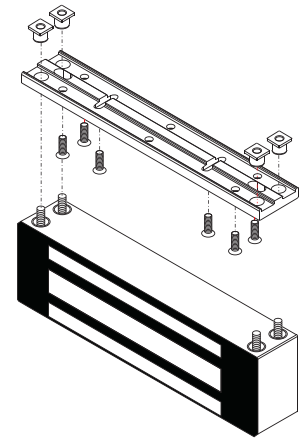


Stainless steel screw nuts are included and attached as above to reinforce the mounting plate.

### New Style Mounting Plate For N10001ST



### New Style Mounting Plate For N10010ST/GL1200-FS-IOTB



## Functions for Weatherproof Series Electromagnetic Locks

### Armature Design

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

### Bond Sensor (Option)



Indicates door locked and unlocked.

SPDT (NC/COM/NO) or SPST (NO/COM) rated: 0.5A/20VDC

### Door Status Sensor (Option)

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

# Weatherproof Series Face Mount Electromagnetic Locks

Models	Holding Force (lbs)	Voltage (VDC)	Current draw	Optional Brackets			
				Narrow Frame/Outswing Door	Inswing Door	Glass Door	Sliding Door
GL-80F	80	12 or 24	140mA/12VDC, 170mA/24VDC	—	—	—	—
10003F	300	12 or 24	300mA/12VDC, 260mA/24VDC	—	Z-150	GLZ-150-10 GLZ-150-12	—
GL600-F GL600M-F 	600	12, 24 or dual 12/24	500mA/12VDC, 250mA/24VDC	—	Z-GL600	—	—
GL850 GL850M	800	12, 24 or dual 12/24	340mA/12VDC, 250mA/24VDC 500mA/12VDC, 250mA/24VDC	—	Z-300N	—	—
GL-1200F 	1200	12, 24 or dual 12/24	460mA/12VDC, 250mA/24VDC 500mA/12VDC, 250mA/24VDC	—	Z-500N	—	L-1200
GL-1800F-IOTB	1800	Dual 12/24	500mA/12VDC, 250mA/24VDC	—	Z-GL1800	—	—
GL-1800FM-IOTB-12	1800	12	500mA/12VDC, 250mA/24VDC	—	Z-GL1800	—	—

**Notes:**

Standard models are all unmonitored. Models with a letter M in the model number include a bond sensor (output NO/COM/NC). For more information on optional brackets or other mounting accessories, please refer to other GEM catalogues.



GL-80F

Compact design suitable for lockers, drawers, and cabinets



10003F



GL600-F



GL850



GL-1200F

Ideal for sliding doors and gates








GL-1800F-IOTB

GL-1800FM-IOTB-12

Ideal for high security locations

# Weatherproof Series Surface Mount Electromagnetic Locks

Models	Holding Force (lbs)	Voltage (VDC)	Current draw	Optional Brackets			
				Narrow Frame/ Outswing Door	Inswing Door	Glass Door	Sliding Door
<b>10003S</b>	300	12 or 24	300mA/12VDC, 260mA/24VDC	L-150	LZ-150	GLZ-150-10 GLZ-150-12	—
<b>N10001ST</b> <b>N10001STM</b>	 600	12, 24 or dual 12/24	280mA/12VDC, 250mA/24VDC 500mA/12VDC, 250mA/24VDC	L-N10001ST	LZ-N10001ST	UBK-013	—
<b>GL600-S</b>	 600	12, 24 or dual 12/24	500mA/12VDC, 250mA/24VDC	L-GL600-AL L-GL600	LZ-GL600	UBK-013	—
<b>10006S</b> <b>10006S-M</b>	800	12, 24 or dual 12/24	340mA/12VDC, 250mA/24VDC 500mA/12VDC, 250mA/24VDC	L-400	LZ-400N	UBK-013	—
<b>EM-750</b> <b>EM-750R</b>	800	12, 24 or dual 12/24	340mA/12VDC, 250mA/24VDC 500mA/12VDC, 250mA/24VDC	L-750	LZ-750	UBK-013	—
<b>10010ST</b>	 1200	12, 24 or dual 12/24	460mA/12VDC, 250mA/24VDC 500mA/12VDC, 250mA/24VDC	L-600	LZ-600N	—	—
<b>N10010ST</b> <b>N10010STM</b>	 1200	12, 24 or dual 12/24	0.46A/12VDC, 0.25A/24VDC 0.5A/12VDC, 0.25A/24VDC	L-N10010ST	LZ-N10010ST	—	—
<b>GL-1200S</b> <b>GL-1200MS</b>	 1200	12, 24 or dual 12/24	460mA/12VDC, 250mA/24VDC 500mA/12VDC, 250mA/24VDC	L-600	LZ-600N	—	—
<b>GL-1800S</b> <b>GL-1800MS</b>	1800	Dual 12/24	500mA/12VDC ; 250mA/24VDC	L-GL1800	LZ-GL1800	—	—

## Notes:

Standard models are all unmonitored. Model with suffix M or MS in the model number includes a bond sensor (output NO/COM/NC), Model with suffix R in the model number includes a bond sensor (output NO/COM). For more information on optional brackets or other mounting accessories, please refer to other GEM catalogues.



10003S



N10001ST  
Includes new style mounting plate



GL600-S



10006S



EM-750



10010ST



N10010ST  
Includes new style mounting plate





GL-1200S



GL-1800S  
Ideal for high security locations

# Weatherproof Series Surface/Face Mount Electromagnetic Locks

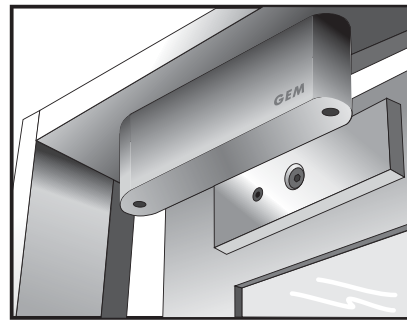
Models	Holding Force (lbs)	Voltage (VDC)	Current draw	Optional Brackets			
				Narrow Frame/Outswing Door	Inswing Door	Glass Door	Sliding Door
<b>EM-750-2</b>	800	12., 24, or dual 12/24	340mA/12VDC, 250mA/24VDC 500mA/12VDC, 250mA/24VDC	L-750	Z-300N	UBK-013	—
<b>GL600-FS-IOTB</b>  <b>GL600M-FS-IOTB</b>	600	12., 24, or dual 12/24	500mA/12VDC, 250mA/24VDC 500mA/12VDC, 250mA/24VDC	L-GL600-AL L-GL600	Z-GL600 LZ-GL600	—	L-GL600-F-AL
<b>GL1200-FS-IOTB</b>  <b>GL1200M-FS-IOTB</b>	1200	12., 24, or dual 12/24	500mA/12VDC, 250mA/24VDC 500mA/12VDC, 250mA/24VDC	L-GL1200FS-IOTB	Z-500N LZ-GL1200FS-IOTB	—	L-GL1200FS-IOTB

**Notes:**

Standard models are all unmonitored. Models with a letter M in the model number include a bond sensor (output NO/COM/NC). For more information on optional brackets or other mounting accessories, please refer to other GEM catalogues.



EM-750-2



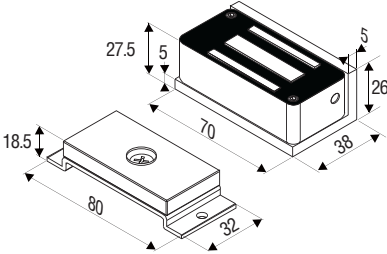
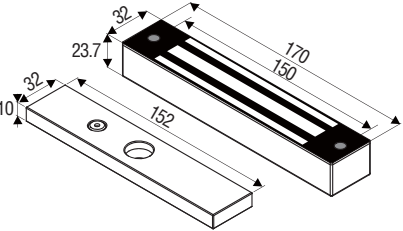
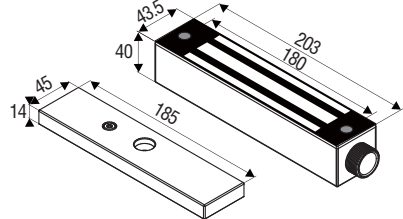
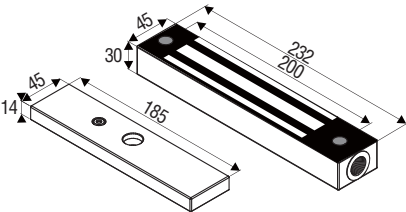
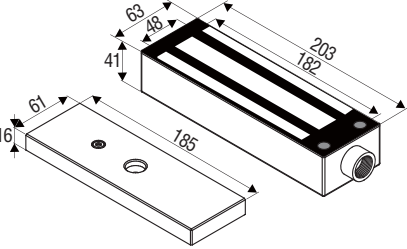
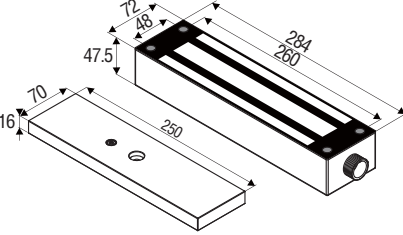
GL600-FS-IOTB



GL1200-FS-IOTB

# Dimensions

## Face Mount Electromagnetic Locks

<p>GL-80F</p> 	<p>10003F</p> 	<p>GL600-F</p> 
<p>GL-850</p> 	<p>GL-1200F</p> 	<p>GL-1800F-IOTB GL-1800FM-IOTB-12</p> 

All dimensions in mm

# Dimensions

## Surface Mount Electromagnetic Locks

<p>10003S</p>	<p>N10001ST</p>	<p>GL600-S</p>
<p>10006S</p>	<p>EM-750</p>	<p>10010ST</p>
<p>N10010ST</p>	<p>GL-1200S</p>	<p>GL-1800S</p>

## Face Mount/Surface Mount Electromagnetic Locks

<p>GL600-FS-IOTB</p>	<p>GL1200-FS-IOTB</p>
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All dimensions in mm