

GV-ML1200 Electromagnetic Lock

The GV-ML1200 is a surface mount electromagnetic lock featured with a built-in voltage spike suppressor and a sensor. It can be applied for single-leaf or double-leaf doors.

Packing List

1. GV-ML1200 electromagnetic lock x 1	2. Magnet faceplate x 1
	◎ •
3. Inner hexagon wrench x 1	4. M8 (41mm) screw + black rubber
	spacer x 1
5. Hat nut x 1	6. Galvanized steel rivet x 2
7. Black rubber spacer x 2	8. Aluminum shim x 2
®	0
9. #10 (5/8") screw x 2	10. #10 (1.25") screw x 9

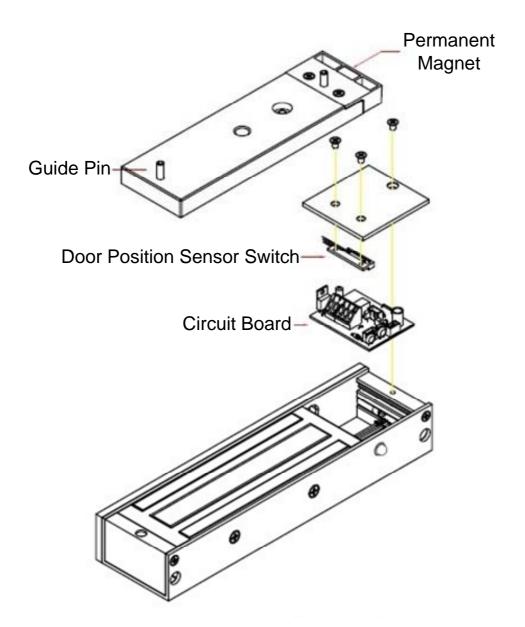
11. M4 (7mm) flat-head screw x 2	12. M5 (8mm) flat-head screw x 2
13. Washer x 3	14. Aluminum tube x 1
(a)	
15. Tamper-proof tube x 3	



Installation

Before installing, add the thread lockers to all screws. Be sure to firmly tighten the screws.

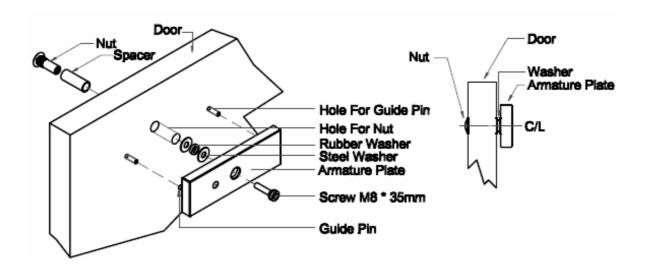
1. Install the electromagnetic lock to the doorframe.



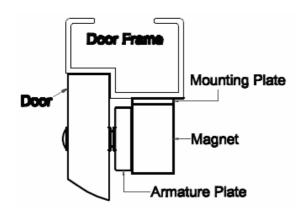
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2. Mounts the armature plate to the door.



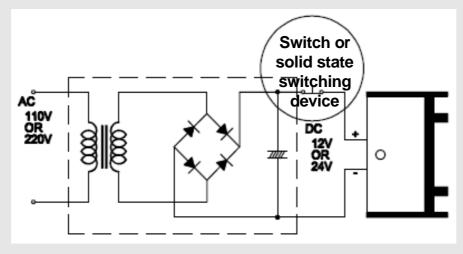
Typical Installation of the electromagnetic lock:



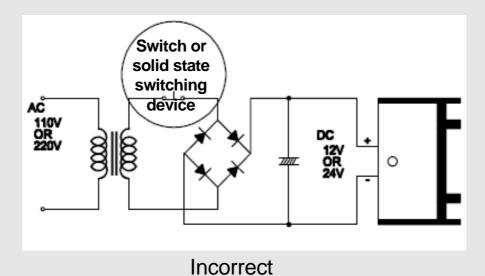
Note: To make the armature plate adjust its proper position to the magnet automatically, do not fix the armature plate too tightly and make the rubber washer more flexible.



Note: If the power switch is not wired between the DC source voltage and the magnet, it will take longer to de-energize the magnet simulating residual magnetism.



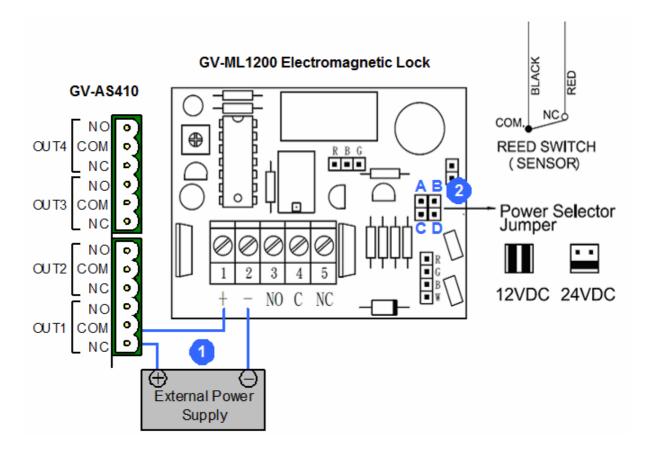
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Connecting to Power

Unscrew the cover of electromagnetic lock, and connect the lock to the output interface of the GV-AS Controller and a power supply. Here we use GV-AS410 Controller as an example.



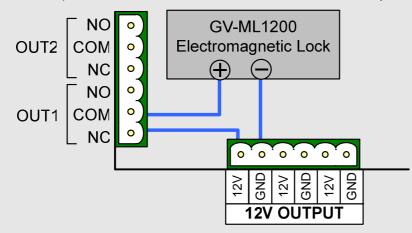
- Power Terminal Block: Connects to a DC 12V / 24V power source. Connect the (+) point on the electromagnetic lock to COM on GV-AS410, connect the two (-) points of the electromagnetic lock and the external power supply together, and connect the (+) point on the external power supply to NC on GV-AS410.
- 2. **Power Switch Jumper:** Plug the power jumpers to **Pins A, C** and **Pins B, D** for a 12V DC power source. Plug the power jumper to **Pins C, D** for a 24V DC power source.



Note:

- 1. It is required to connect an external power supply if the total power consumption of the output devices and readers connected to the GV-AS Controller exceeds **3A** (for GV-AS210 / 2110), **3.5A** (for GV-AS410 / 4110) or **5A** (for GV-AS810 / 8110).
- 2. You may use the power outputs on the GV-AS Controller when the total power consumption of the output devices and readers connected to the GV-AS Controller is under 3A (for GV-AS210 / 2110), 3.5A (for GV-AS410 / 4110) or 5A (for GV-AS810 / 8110). Here we use GV-AS410 Controller as an example.

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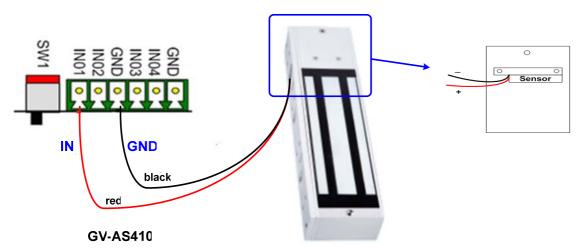
Connecting a Sensor to the GV-AS Controller

There are two types of sensors for the electromagnetic lock: Door Closure Detection Sensor and Magnet Clasp Detection Sensor. The sensors will detect whether the door is closed tightly or not, and trigger a "Held Open" message on GV-ASManager when the door remains unlocked. To connect the sensors to the GV-AS Controller, follow the steps below. Here we use GV-AS410 Controller as an example.

Note: Only one type of sensor could be applied at a time.

Option 1: Door Closure Detection Sensor

To connect the Door Closure Detection Sensor to the GV-AS410, connect the **Red** wire of the sensor to the **Input** of the GV-AS410, and connect the **Black** wire of the sensor to the **Ground** of the GV-AS410.

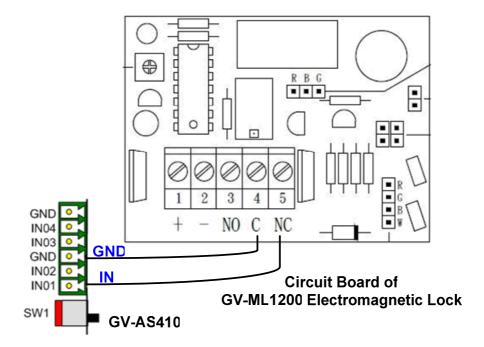


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Option 2: Magnet Clasp Detection Sensor

To connect the Magnet Clasp Detection Sensor to the GV-AS410, connect one wire from NC of the electromagnetic lock's circuit board to the **Input** of the GV-AS410, and connect the other wire from COM of the electromagnetic lock's circuit board to the **Ground** of the GV-AS410.



Note: The two wires mentioned in Option 2 are not included in the package; the users must prepare them additionally. It is recommended to use wire No. 26 AWG (American Wire Gauge) or above.

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June 3, 2015



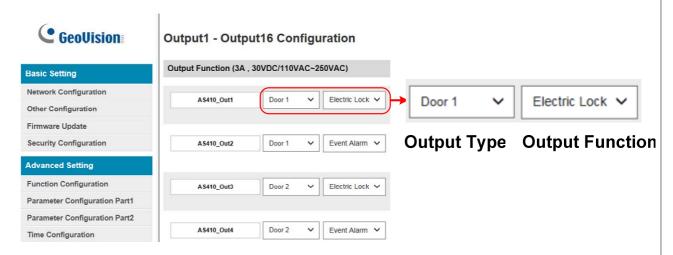
Setting the Web Interface of the GV-AS Controller

Here we use GV-AS410 Controller as an example.

 To configure the input setting of connected sensor: on the Web interface of the GV-AS410, select Advanced Setting, select Input Configuration, and set the input function to Door Contact.



2. To configure the output setting of the electromagnetic lock: on the Web interface of the GV-AS410, select **Advanced Setting**, select **Output Configuration**, and set the output function to **Electric Lock**.



For details on configuring the input and output devices, see the *Input Configuration* and *Output Configuration* section in Chapter 8 of the *GV-AS Controller User's Manual*.



Specifications

Voltage	DC 12V / 24V
Current	500mA at 12V / 250mA at 24V
Holding Force	544.311 kg (1200 lb)
Operating Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Dimensions (L x W x H)	266 x 73 x 40 mm (10.47" x 2.87" x 1.57")
Armature Plate Dimensions (L x W x H)	185 x 61 x 16 mm (7.28" x 2.40" x 0.62")
Weight	5 kg (11.02 lb)
Certification	CE, UL, ISO 9001, RoHS

All specifications are subject to change without notice.