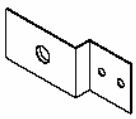
GV-ML600 Electromagnetic Lock

The GV-ML600 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.

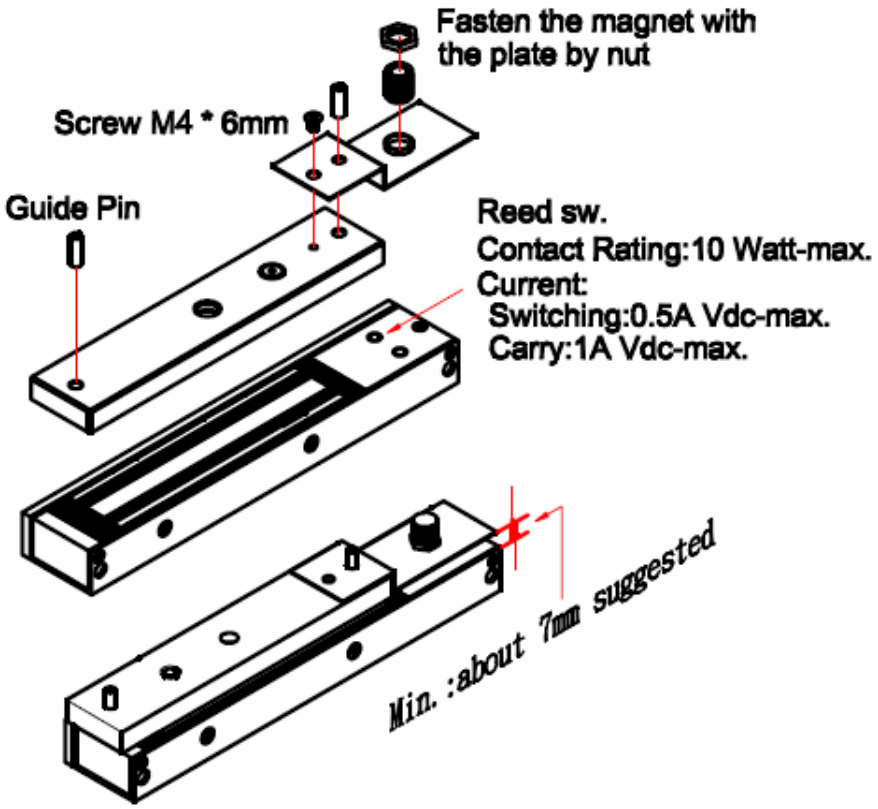
Packing List

1. GV-ML600 electromagnetic lock x 1 	**2.** Magnet faceplate x 1 
3. Inner hexagon wrench x 1 	**4.** M8 (35mm) 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 
9. #10 (5/8”) screw x 2 	**10.** #10 (1.25”) screw x 8 
11. Washer x 2 	**12.** Stainless steel bracket x 1 
13. CU1201 screw + permanent magnet x 1 	**14.** M4 (6mm) screw x 1 
15. Inner hexagon nut x 1 	**16.** Aluminum tube x 1 

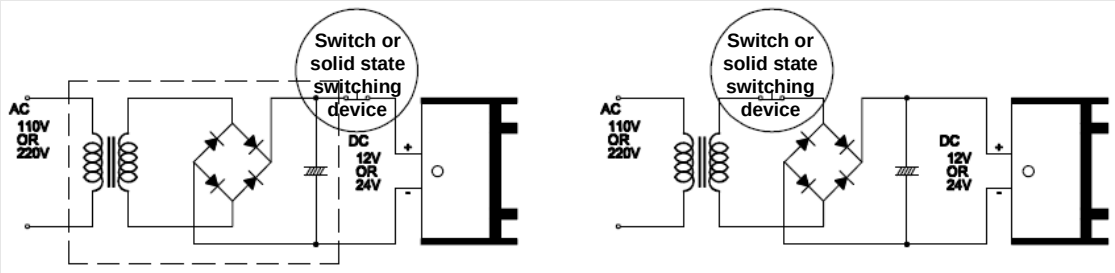
Installation

Before installing, add the thread lockers to all screws. Firmly tighten the screws to avoid fastening loosen.

1. Install the electromagnetic lock to the doorframe.

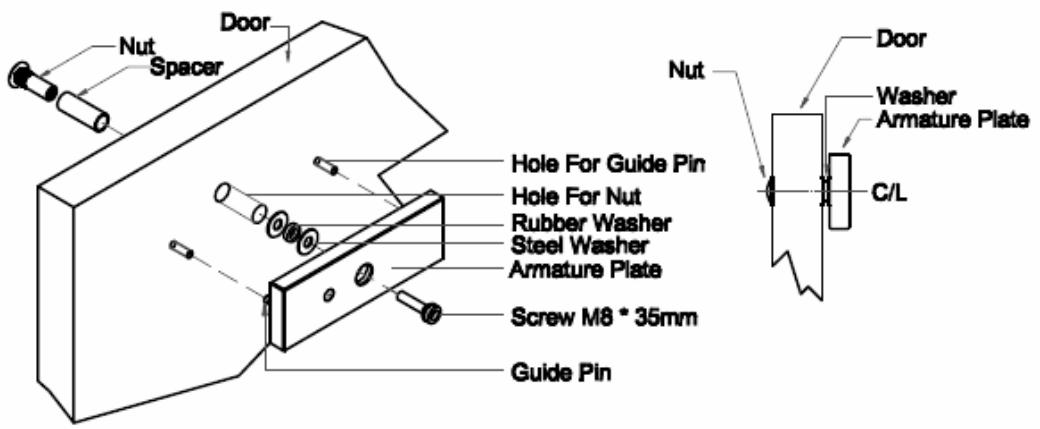


Note: If the power switch is not wired between the DC source voltage and the magnet, it will take longer to de-energize the magnet simulating residual magnetism.

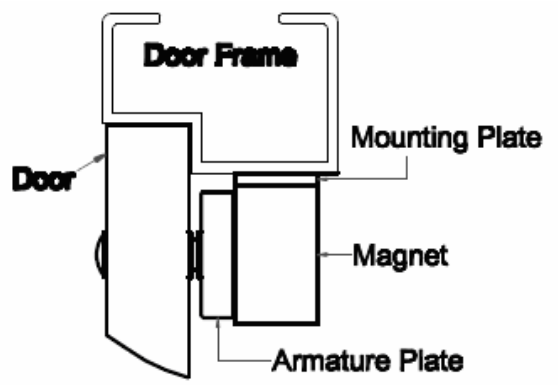


Correct Incorrect

2. Mounts the armature plate to the door.



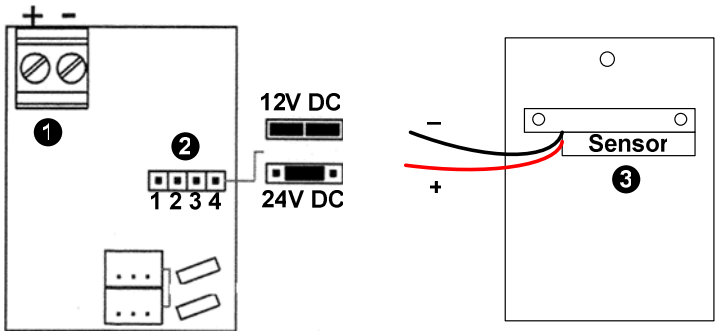
Typical Installation of the electromagnetic lock:



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.

Contacts

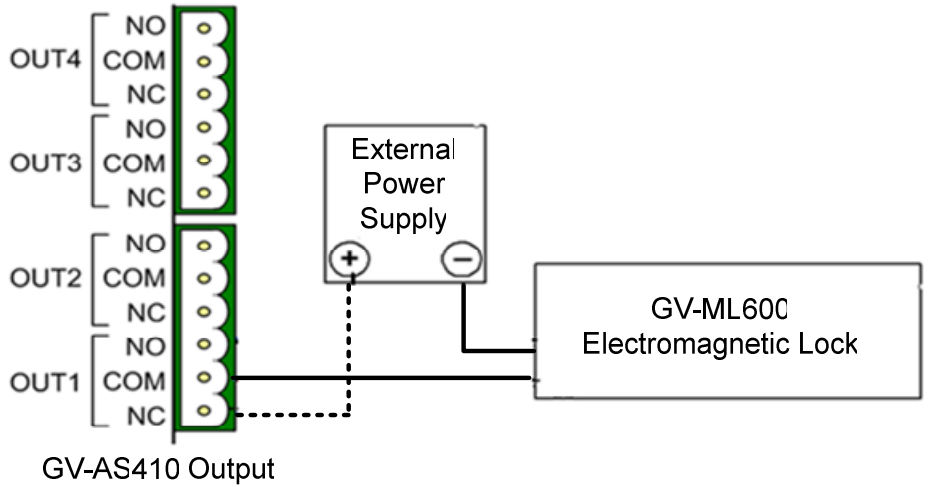
Unscrew the cover of electromagnetic lock and you will see the diagram as below:



1. **Power Terminal Block:** Connects to the DC 12V / 24V power source.
2. **Power Switch Jumper:** Plug the power jumpers to **Pins 1, 2** and **Pins 3, 4** for a 12V DC power source. Plug the power jumper to **Pins 2, 3** for a 24V DC power source.
3. **Sensor:** Connects to the access control system by using the black and red wires. For details, see *Connecting to the GV-AS Controller* later in this installation guide.

Connecting to Power

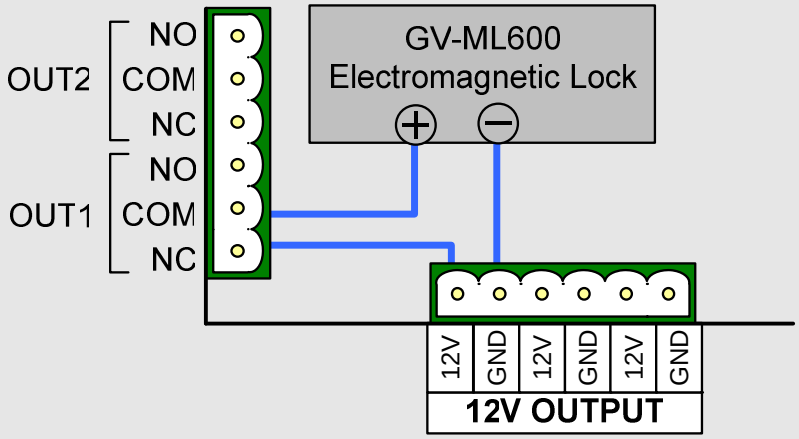
To connect the power between the electromagnetic lock and the GV-AS Controller, refer to the diagram as below. Here we use GV-AS410 Controller as an example.



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.

Note:

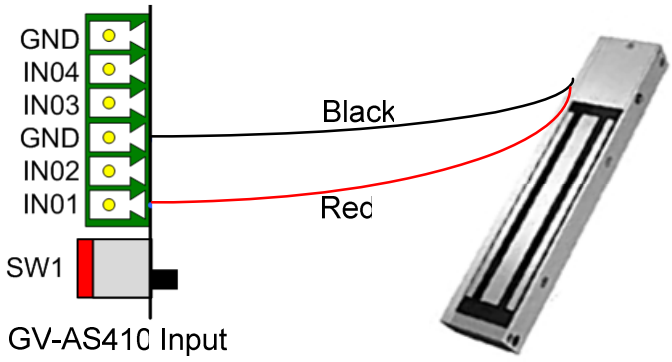
1. It is required to connect an external power supply if the total power consumption of the output devices and readers connected to the GV-AS Controller exceeds **3A** (for GV-AS210 / 2110), **3.5A** (for GV-AS410 / 4110) or **5A** (for GV-AS810 / 8110).
2. You may use the power outputs on the GV-AS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



Connecting to the GV-AS Controller

To connect to the GV-AS Controller, follow the steps below. Here we use GV-AS410 Controller as an example.

1. To connect the 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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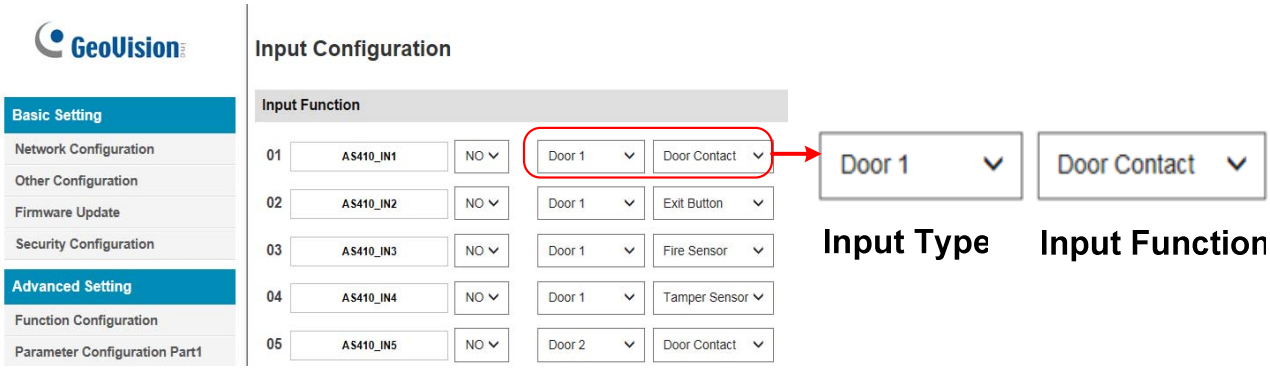
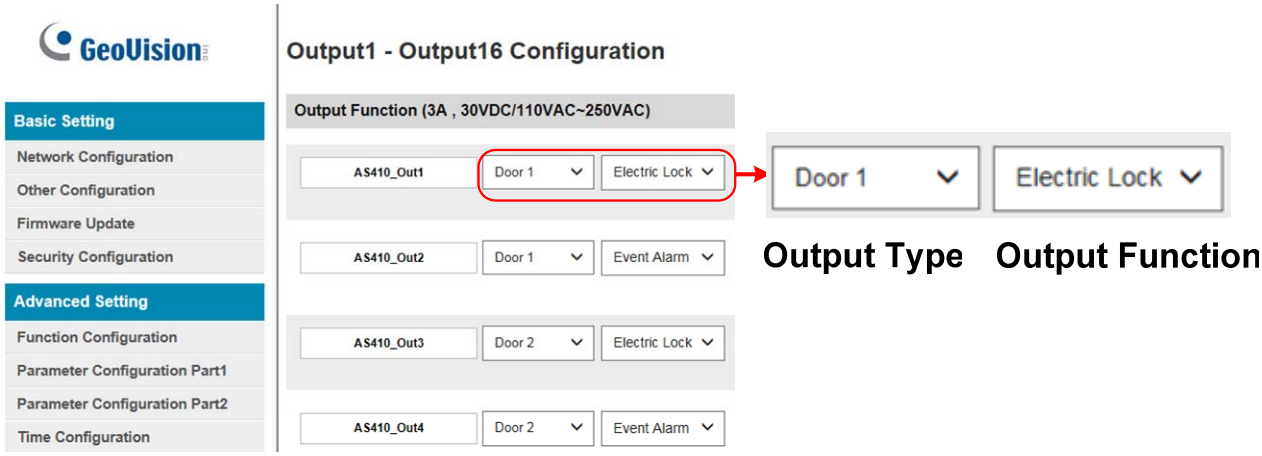
2. On the Web interface of the GV-AS410, select **Input Configuration** under **Advanced Setting**, and select an input type and input function for the connected sensor from the electromagnetic lock.



On the Web interface of the GV-AS410, select **Output Configuration** under **Advanced Setting**, and select an output type and output function for the connected electromagnetic 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	272.15 kg (600 lb)
Operating Temperature	-20°C ~ 60°C (-4 °F ~ 140 °F)
Dimensions (L x W x H)	250 x 47.2 x 26.6 mm (9.84" x 1.86" x 1.05")
Armature Plate Dimensions (L x W x H)	185 x 38 x 12.5 mm (7.28" x 1.50" x 0.49")
Weight	2.2 kg (4.85 lb)
Certification	CE and UL

All specifications are subject to change without notice.