

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.

Note: The product should only be powered by a UL listed power supply.

Packing List

1. GV-ML600 electromagnetic lock x 1	 2. Magnet faceplate x 1 O •
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	 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.



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 Sensor to the Access Control System later in this installation guide.

Connecting to the GV-AS Controller

To connect the electromagnetic lock to the GV-AS Controller, follow the steps below. Here we use the GV-AS400 Controller for example.

1. To connect the power between the electromagnetic lock and the GV-AS400, refer to the diagram as below.



GV-AS400 Output

Connect the (+) point on the electromagnetic lock to **COM** on GV-AS400, 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-AS400.

 To connect the sensor to the GV-AS400, connect the Red wire of the sensor to the Input of the GV-AS400, and connect the Black wire of the sensor to the Ground of the GV-AS400.



3. On the Web interface of the GV-AS400, select **Input Setting**, and select an input type and input function for the connected sensor from the electromagnetic lock.

	AS400 Input Configuration								
Geovision	Input Fun	iction			Input Function				
Basic Setting	Input 01	Door A	~	Door Contact	\mapsto	Immut 04	Desc		Deve Contract In
Network Setting	Input 02	Door B	~	Exit Button 🖌)	input 01	Door A	×.	Door Contact 🚩
Other Setting	Input 03	Door A	~	Fire Zone 💌					
Firmware Update	Input 04	Door A	~	Tamper Zone 💌		Input 02	Door B	\sim	Exit Button 🛛 🚩
Account Setting	Input 05	Door B	~	Door Contact 🛩					
Advance Setting	Input 06	Door B	~	Exit Button 🔽			Input T	vpe	Input Function
Function Setting	Input 07	Door B	~	Fire Zone				/1	
Parameter Setting	Input 08	Door B	~	Tamper Zone					
Time Setting	Input 09	Door C	~	Door Contact					
Input Setting	Input 10	Door C	~	Exit Button					
Output Setting	Input 11	Door C	~	Fire Zone					
Wiegand Setting	Input 12	Door C		Tampar Zana					
Extend Device	Input 12	00010		Tamper Zone					
Extend Reader	input 13	Door D	~	Door Contact					
Extend IO	Input 14	Door D	~	Exit Button					

4. On the Web interface of the GV-AS400, select **Output Setting**, and select an output type and output function for the connected electromagnetic lock.

Geollision	AS400 Output Configuration	Output Eurotion				
	Output Function	Output Function	runction			
Basic Setting	01 Door A 💌 Electric Lock 💌	\rightarrow				
Network Setting Other Setting	02 Door A 🔽 Event Alarm	01 Door A 🛛 🖌	Electric Lock			
Firmware Update						
Account Setting	US DOOR B Electric Lock		-			
Function Setting	04 Door B 💌 Event Alarm 💌	02 Door A 🖌	Event Alarm			
Parameter Setting	05 Door C 💌 Electric Lock 💌					
Time Setting	06 Door C 💌 Event Alarm	Output Type	Output Function			
Output Setting	07 Dece D III Electric Lock					
Wiegand Setting	Unit Door D					
Extend Device	08 Door D 💌 Event Alarm 💌					
Extend IO	09 No Function					

For details on configuring the input and out devices, see 3.4.3.D Input Function and 3.4.3.E Output Function on 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)
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