

Watchman W452 Installation Guide



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Items Included

- Watchman 452 Unit
- Blue Board
- 12 Volt DC Power Supply
- Keys
- Flangenuts 1/4" (x4)
- Carriage Bolts 1/4" x 1" (x4)
- Customer Information Packet

Remove plastic covering from the W452 screen before installation.

Wiring Guidelines

Gauge Wire	Wire Run
18	25 feet
16	50 feet
12	60 feet

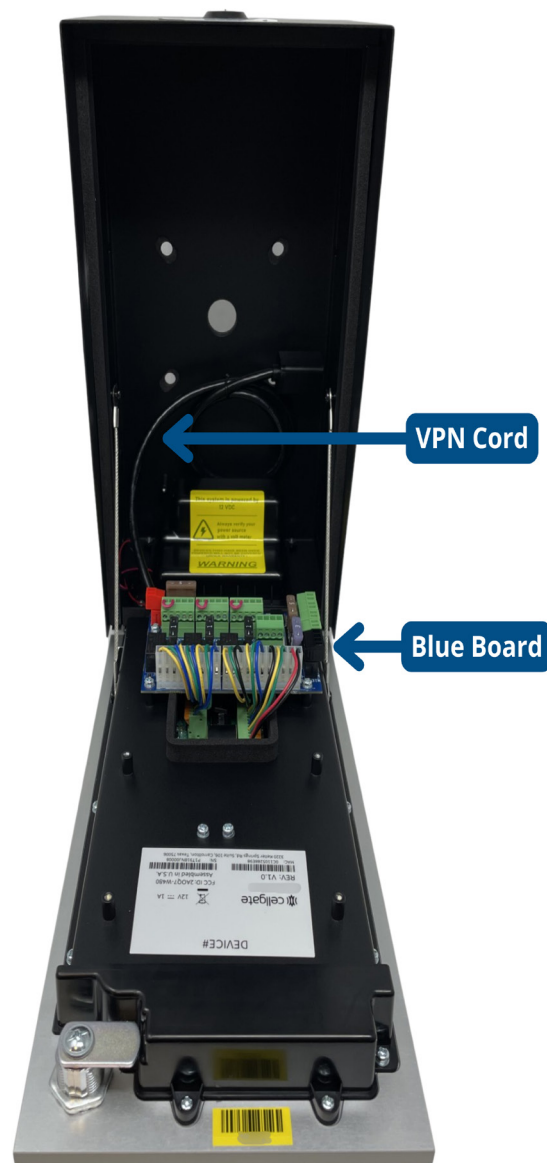
We do not recommend running wires over 60 feet.

Required wiring: 6 conductor stranded and shielded for main device, and 4 conductor stranded and shielded for optional Wiegand devices.

Pay attention to polarity. The system uses DC power.



Operating Temperatures
-20° to 55° C
-4° to 131° F

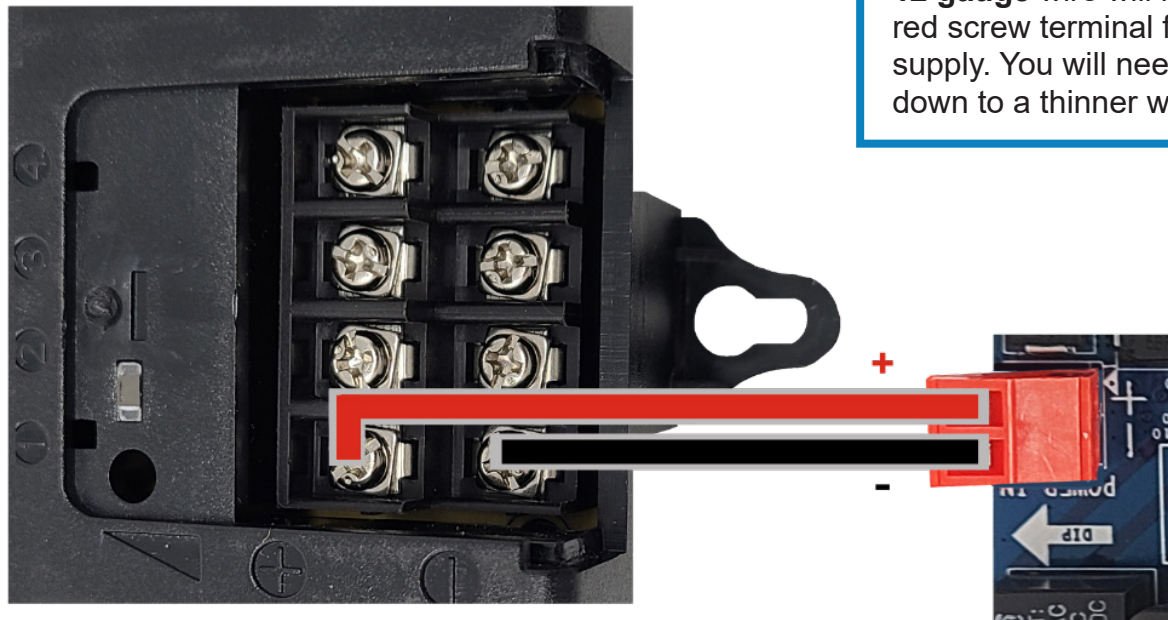




Standard Power Wiring

Most devices will be powered using the (PWR-200) 12V DC 5 Amp Transformer.

Ensure you wire the positive to the + and negative to the -



Use the Type-B *grounded* plug that is supplied with the transformer.



For solar power wiring instructions, please contact CellGate.

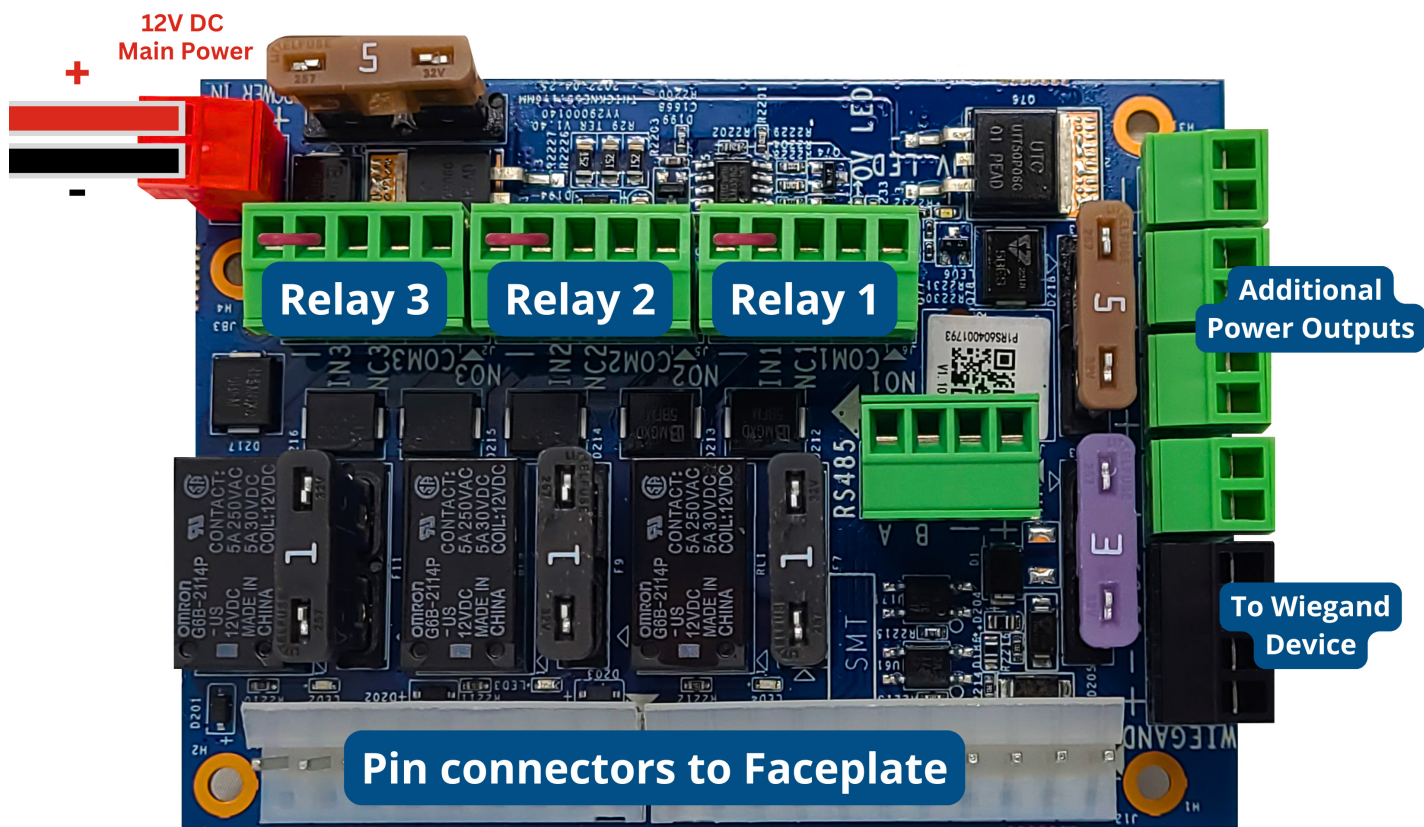


Blue Board

Below is the blue board inside the device. It provides power to the router and other accessories, such as cameras. It's also the central control interface between the faceplate and the router.

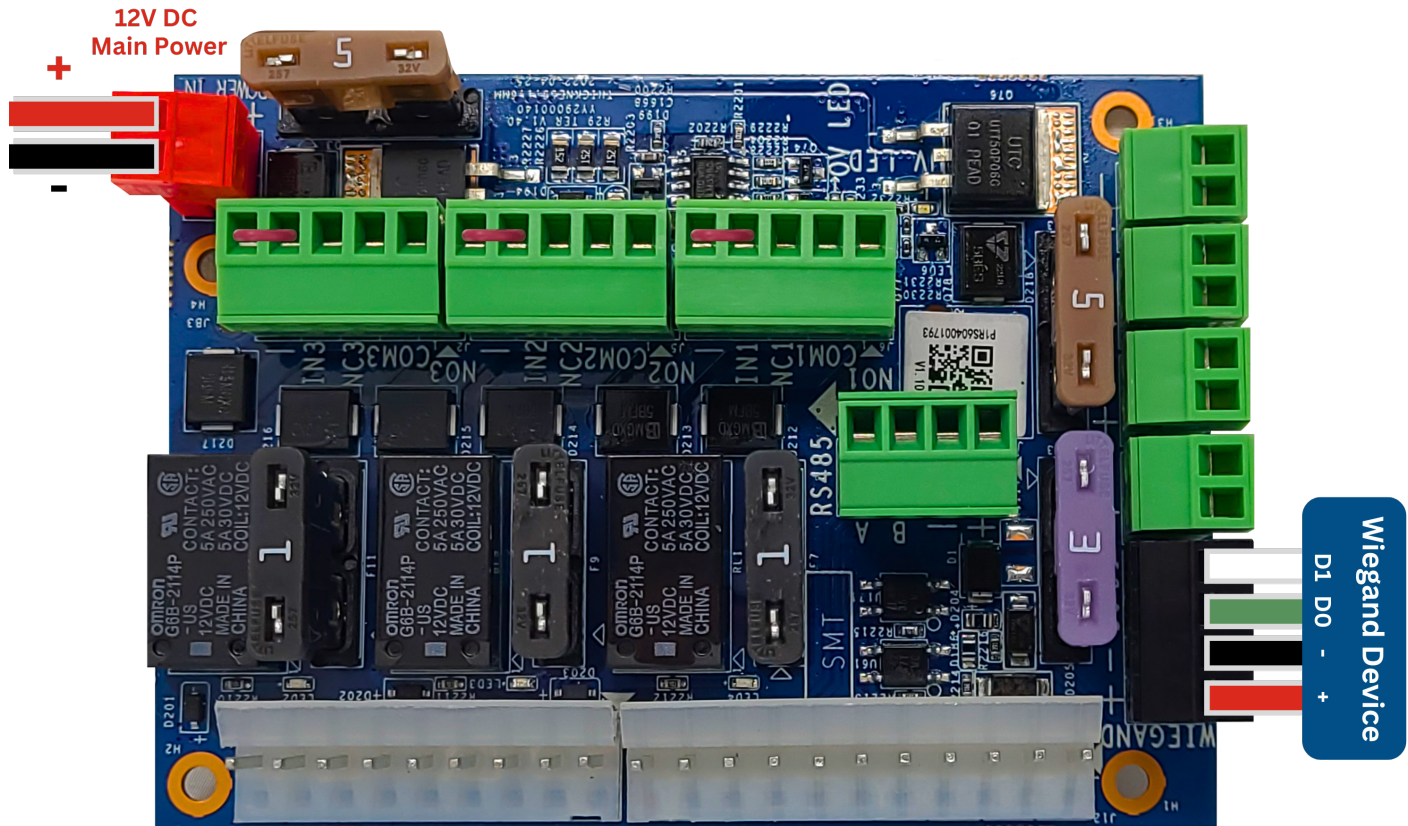
- Wire main power from transformer to the power connector on the blue board.
- Connect gate trigger wires from the Normally Open (NO) and Common (C) to the free exit or exit terminals on the gate operator.
- Connect the gate status wires on the 5-pin connector on the main relay and input plug to the magnetic switch or Dry Contact, Normally Closed (NC) relay on the gate operator.
- If using an optional 26-bit reader (keypad, card reader, RFID, or clicker), wire the device to the Wiegand connection on the blue board.

Activate using test credentials on the Activation and Test Process document.



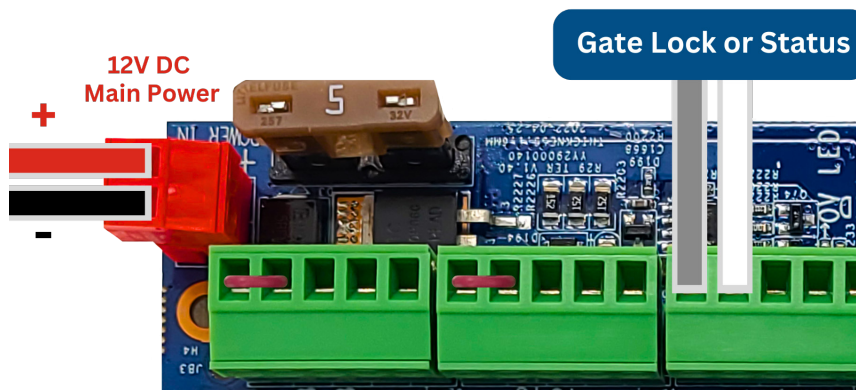


Wiegand Wiring



Gate Status from a Gate Operator

You can monitor the status of the gate by wiring a dry contact output from the gate operator into an input on the blue board. You will likely need to program the output of the gate operator.

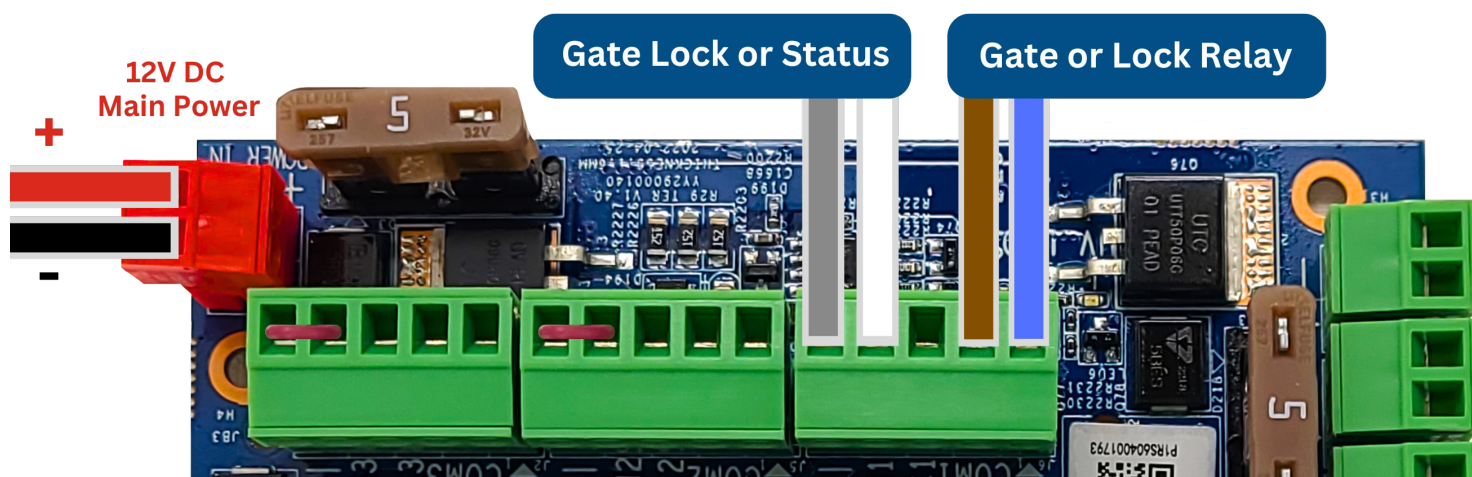


Warning: You must wire into a **DRY CONTACT** on the Gate Operator. Applying power to the input on the blue board will damage it.

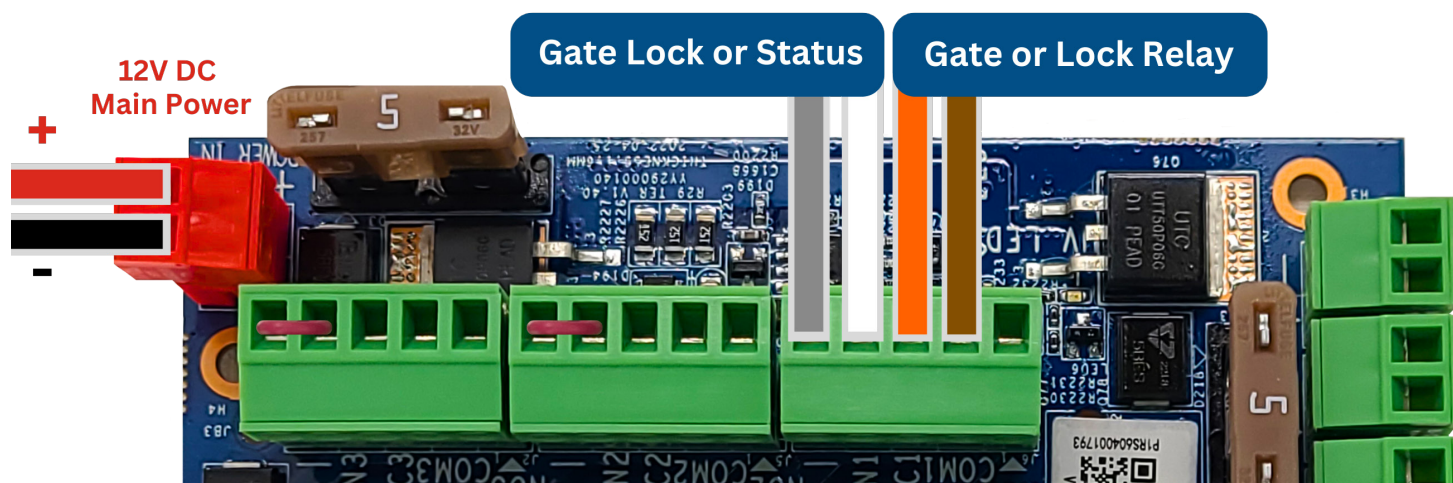
Gate statuses can be inverted. If needed, please call CellGate to invert.



Dry Contact Relay, Normally Open



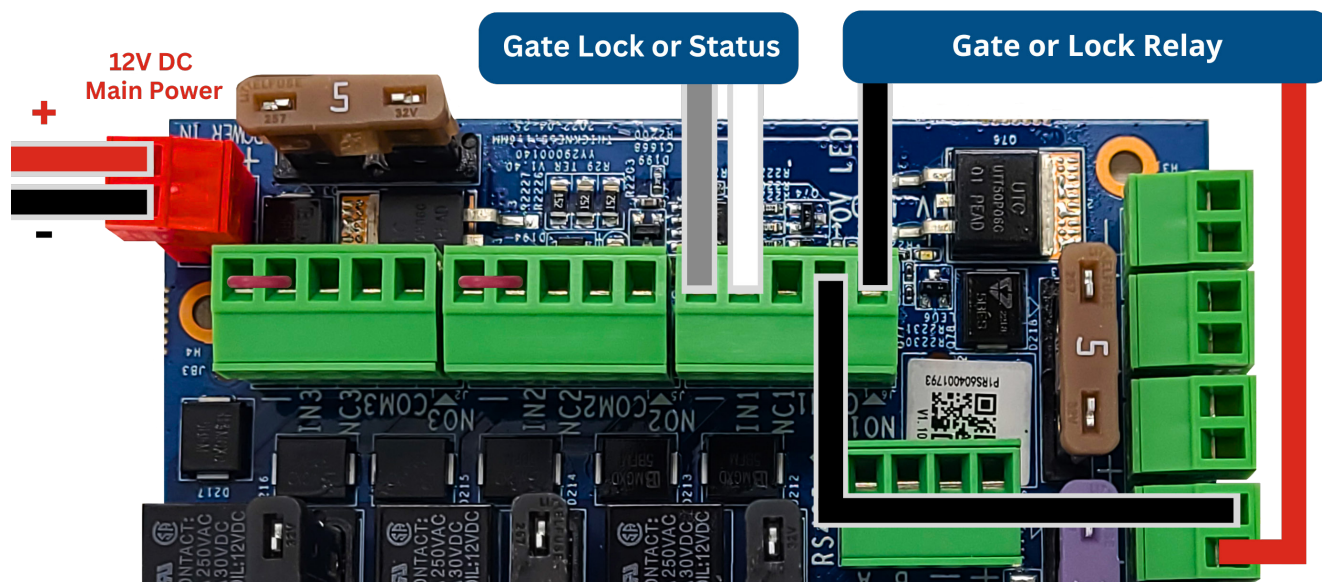
Dry Contact Relay, Normally Closed



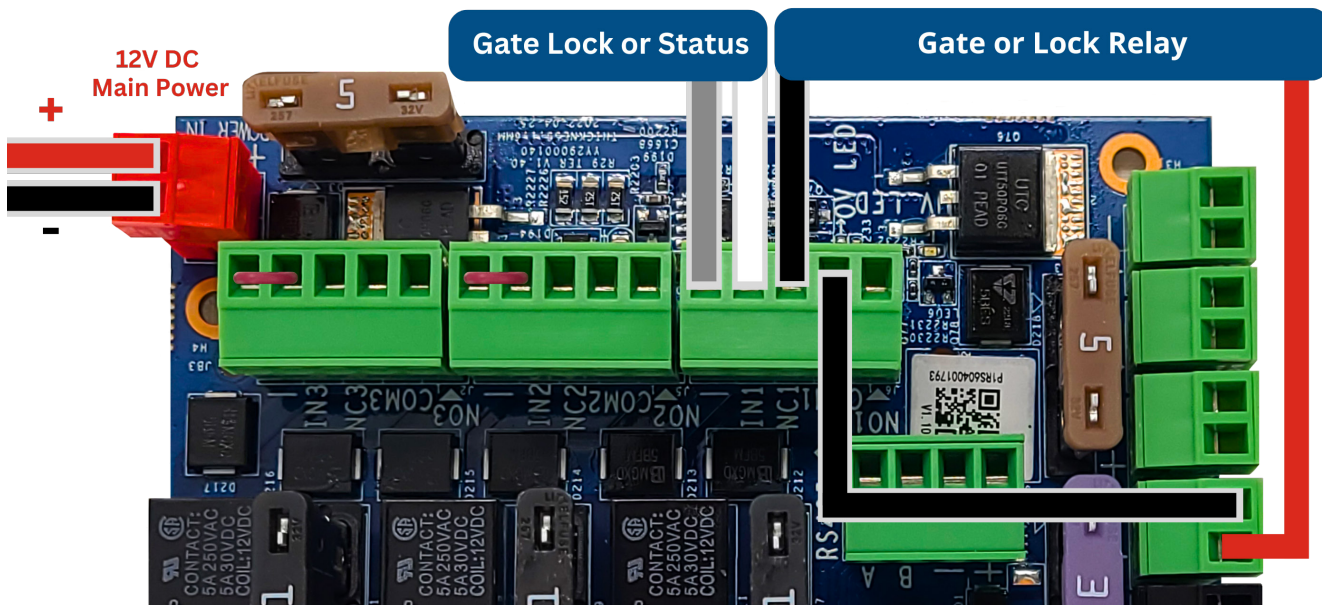


You must use a diode to maintain warranty. Contact CellGate for diode instructions.

Wet Contact Relay, Normally Open



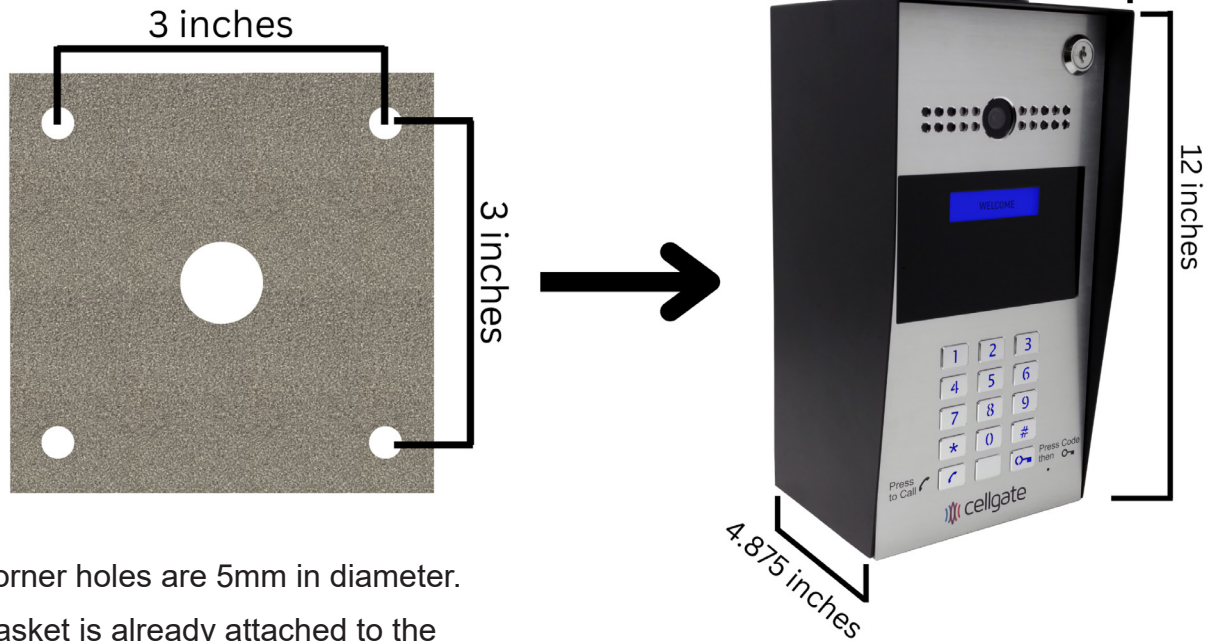
Wet Contact Relay, Normally Closed





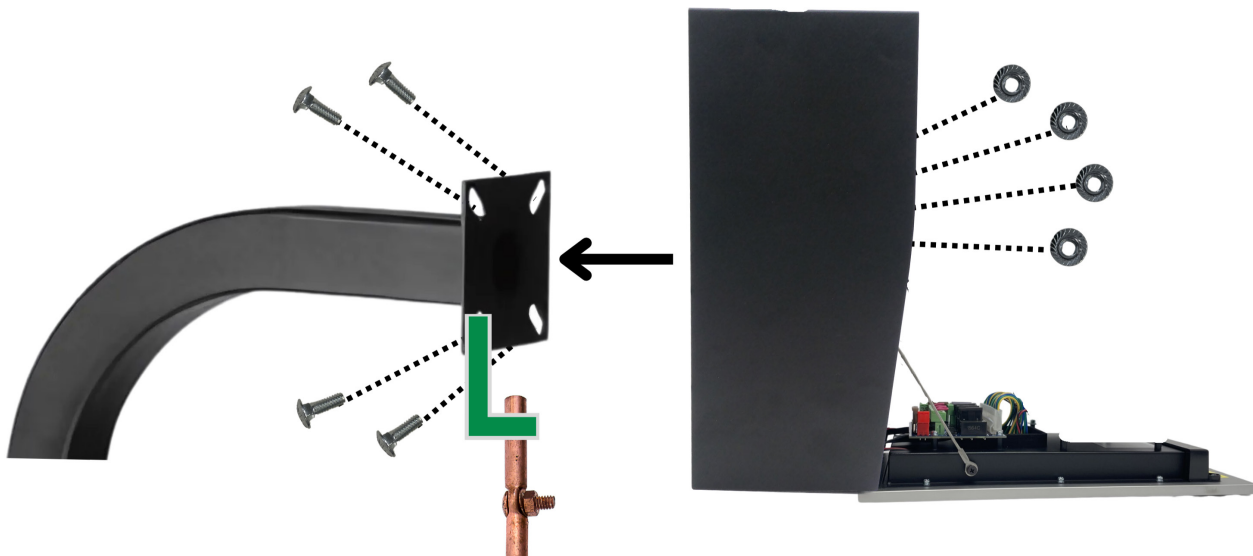
Mounting to a Pedestal

If a flush mount is preferred, please contact CellGate for instructions.



Corner holes are 5mm in diameter.

Gasket is already attached to the back of the device.



Attach a 14-gauge grounding wire from one of the carriage bolts to a grounding rod.



Before powering on the W452, ensure the customer's internet is connected to the VPN Cord. When the W452 is powered on, it will search for a DHCP address for 60 seconds.



After the boot up, press the Blank Button under the “0” key 5 times. The W452 will read off the IP address. Verify the IP provided is within the customer's network. If a DHCP address was not received, the W452 will read off an IP of 192.168.0.10. If the IP is not within the customer's network or is the default, please contact CellGate Technical Support.

