WATCHMAN®
Your Virtual Security Guard

by cellgate

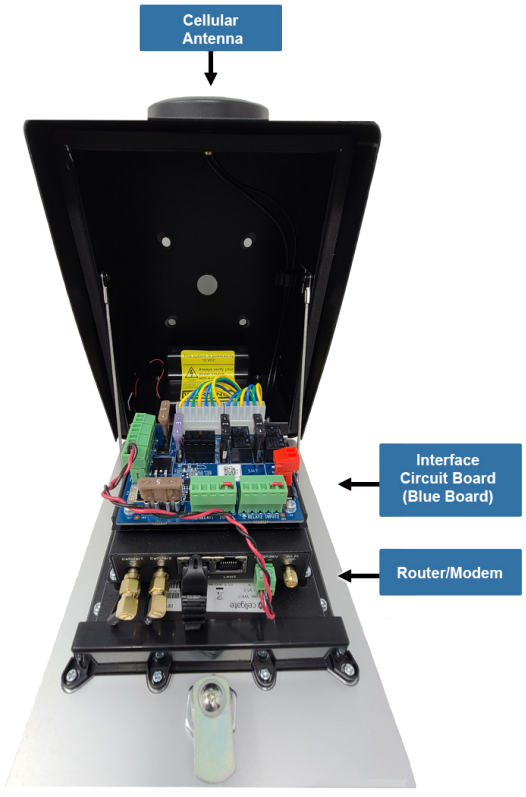
W410 Quick Installation Guide

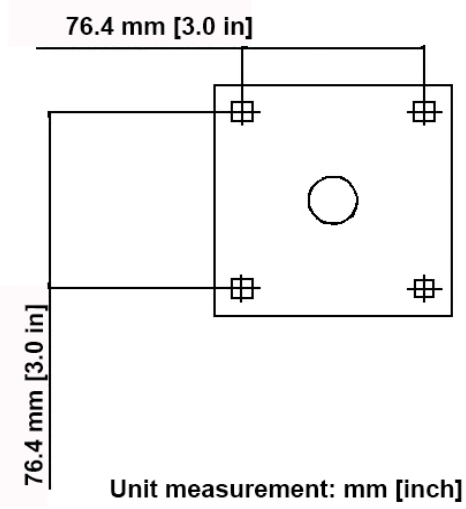
Items Included in Kit

- Watchman 410 Unit
- Blue Board
- Router/Modem (InHand or Pepwave)
- 12 Volt DC Power Supply
- Keys
- Nuts x 4
- Bolts x 4
- Customer Information Packet

This document is intended for distribution to CellGate customers, dealers, and other authorized external audiences. It contains information approved for external use.

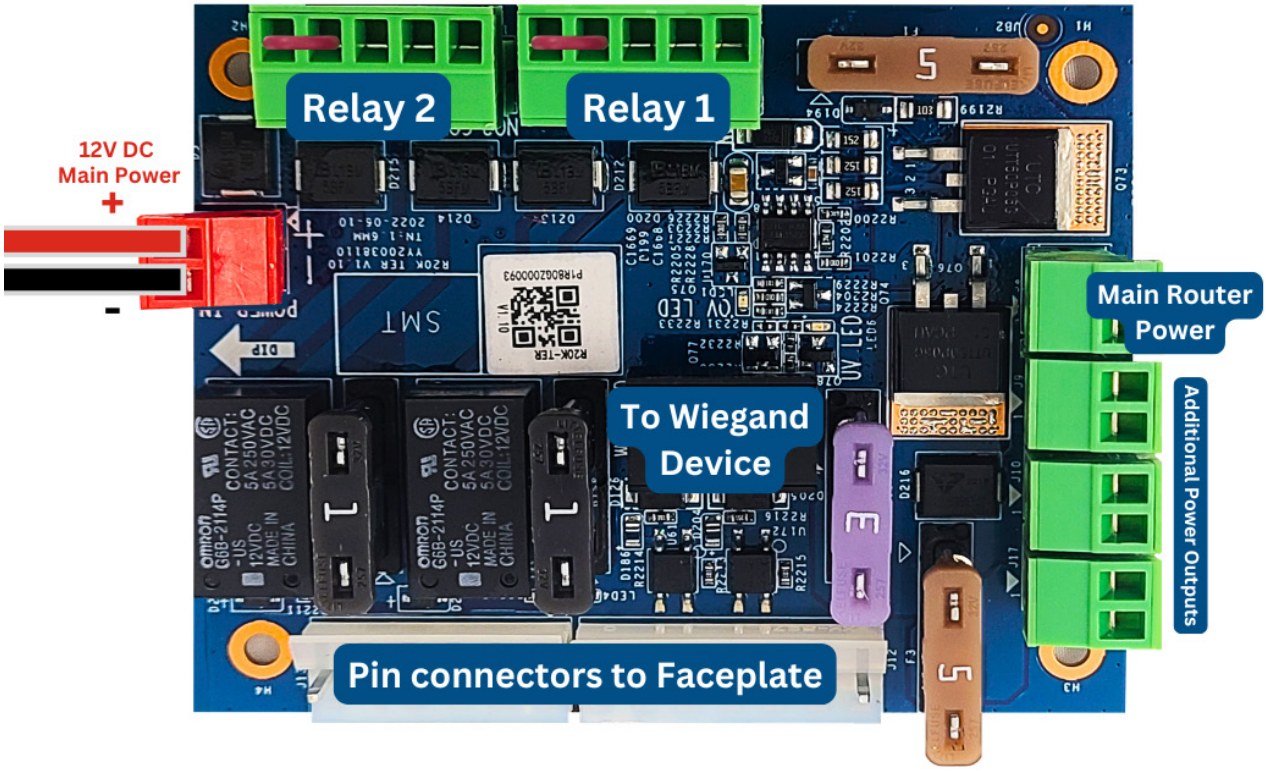
Watchman W410 Unit





Unit measurement: mm [inch]

Main Board

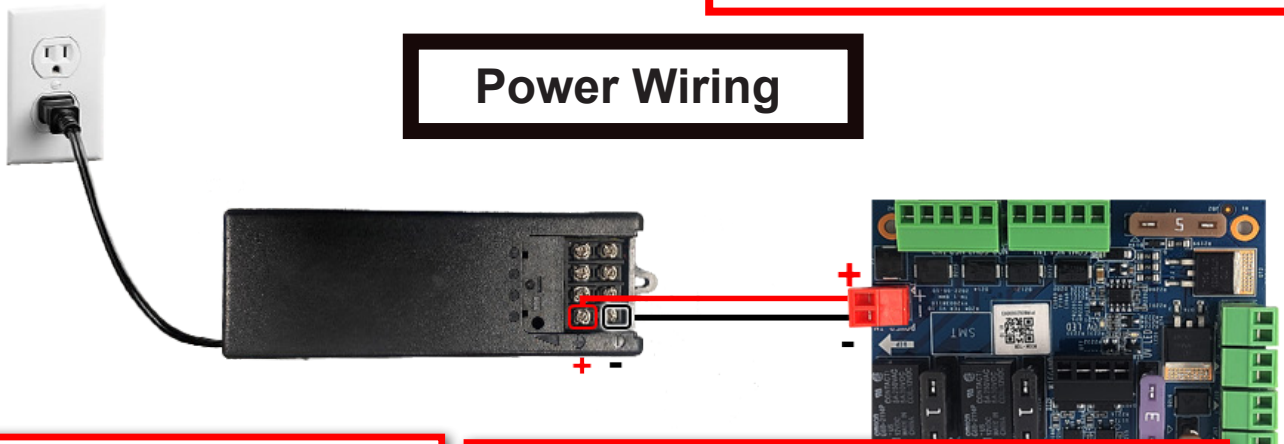


Power Wiring Guidelines	
Gauge Wire	**Wire Run (Distance)**
18 Gauge	**25 ft**
16 Gauge	**50 ft**
12 Gauge	**60 ft**

NOTE **12 gauge** wire will not fit in the screw terminal for the power supply. You will need to splice it down to a thinner wire.

The device includes a pre-attached **16-gauge grounding wire** that must be connected to an appropriate ground.(Refer Installation document)

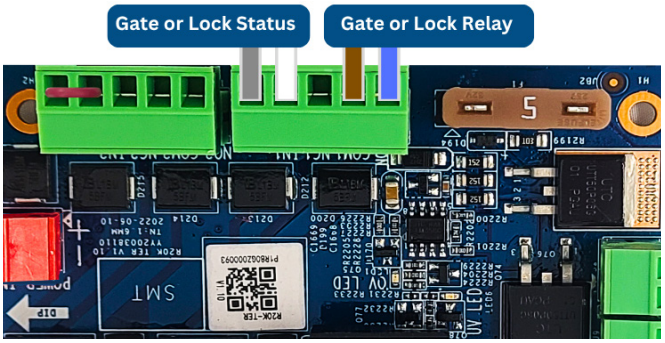
Power Wiring



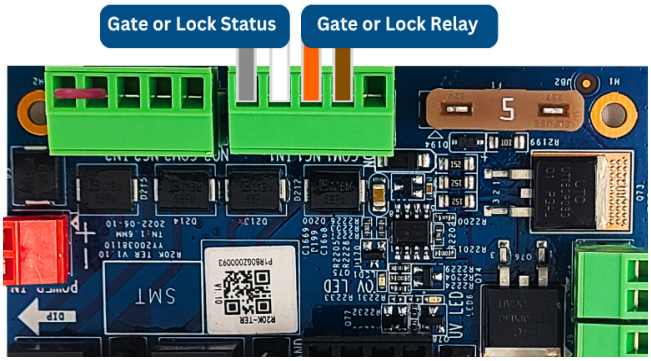
Pay attention to polarity.
The system uses DC power.

Recommended wiring: 6 conductor stranded and shielded for main device.

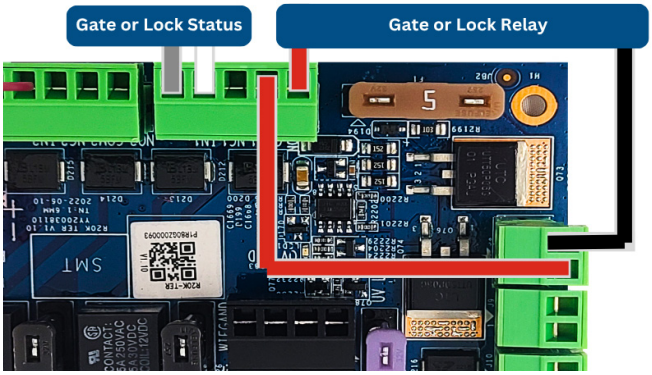
Dry Contact Relay,
Normally Open Dry Contact
No Voltage to Lock or Gate



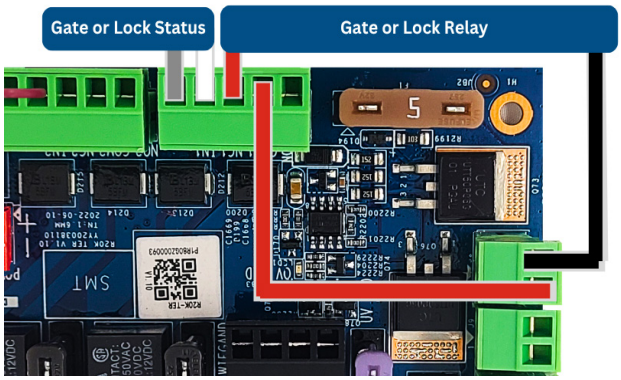
Dry Contact Relay,
Normally Closed Dry Contact
No Voltage to Lock or Gate



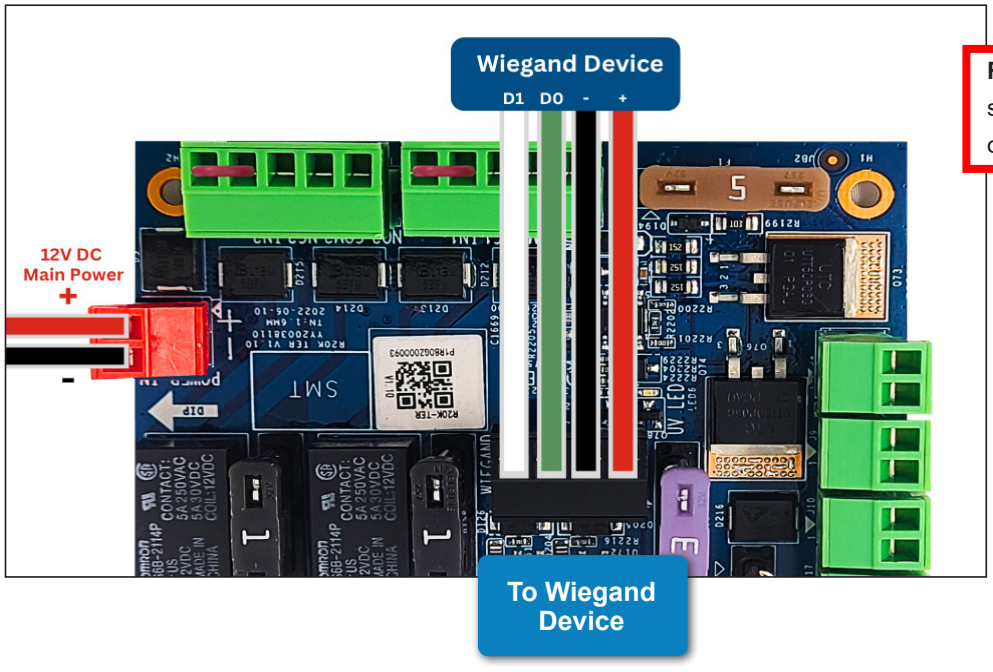
Lock Requiring Constant 12V:
Wet Contact Relay, Normally Open
Door/lock opens (releases)
when power is added



Lock Requiring Constant 12V:
Wet Contact Relay, Normally Closed
Door/lock opens (releases)
when power is removed



Wiegand Wiring to Board: 26-Bit Reader
Connecting a Wiegand Device to the Interface Board

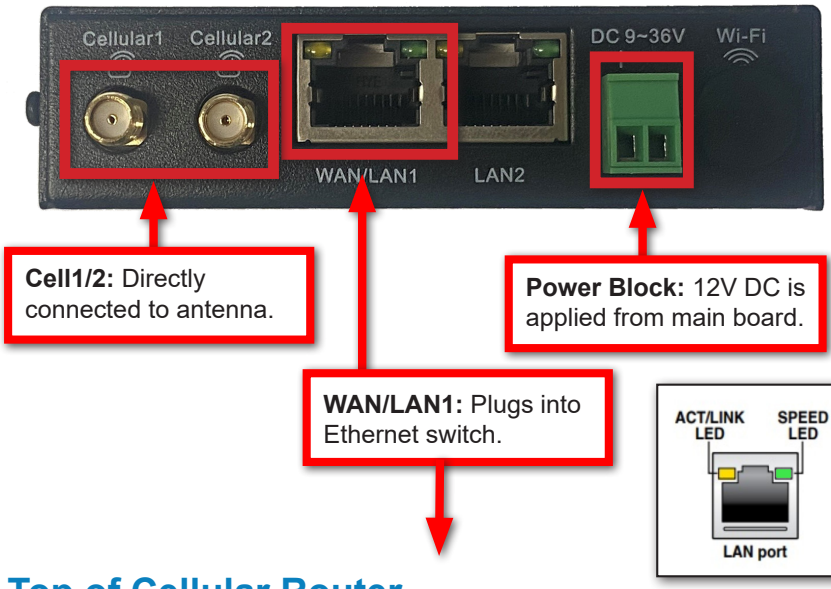


Required wiring: 18/4 conductor stranded and shielded for optional Wiegand devices.

InHand Cellular Connection

For Use in W410 Version: AA1TP ATT, AA1TP VZN
Product ID: M780

Back of Cellular Router



Speed Green	Description
Off	No Cell Connection
On	Cell Connection
Blinking	Cell Activity

Activity Yellow	Description
Off	No Network Connection
On	Network Connection
Blinking	Network Activity

Top of Cellular Router

LED Indicators

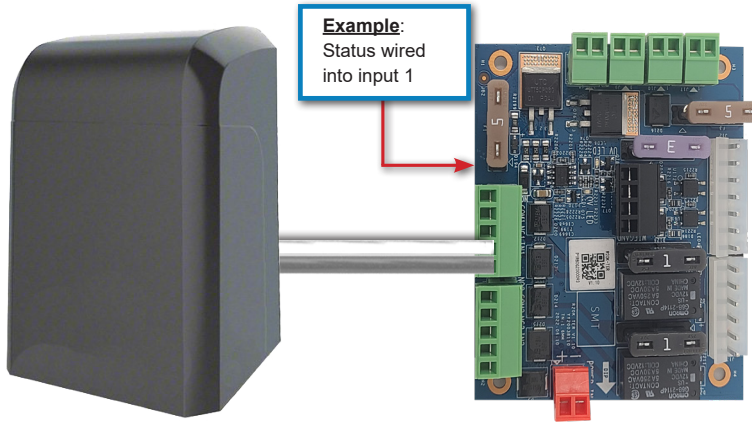
The LED lights shown below indicate crucial information about the router. For further details see the tables below.

Power: Indicates the device is on.
Status: Indicates device state/troubles.
Cellular: Indicates device communication.
Signal: Indicates strength of signal.

SIGNAL	Description
Red	Signal 0-10 (Bad)
Yellow	Signal 11-20 (Decent)
Green	Signal 21-30 (Good)

Gate Status From a Gate Operator

Gate Operator — Blue Board



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.

CellGate Support: (972) 231-1999, Option 2