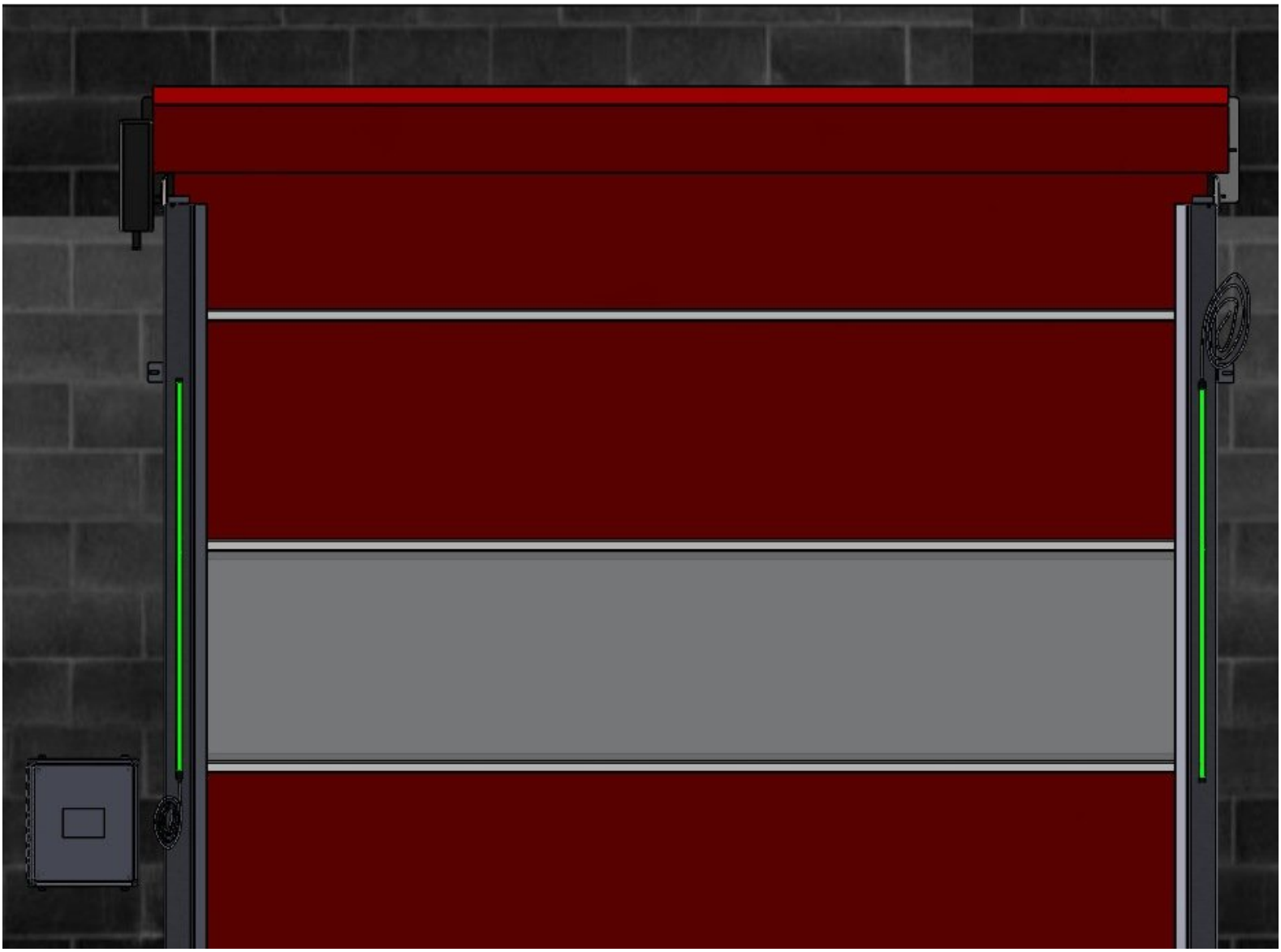
LED Door Indicator Light System with MGM Panel

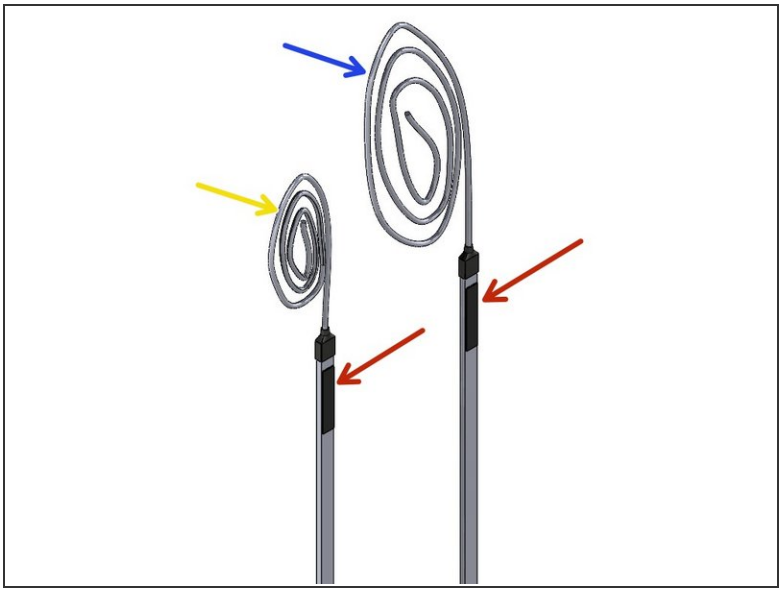
Written By: Trent Borgardt

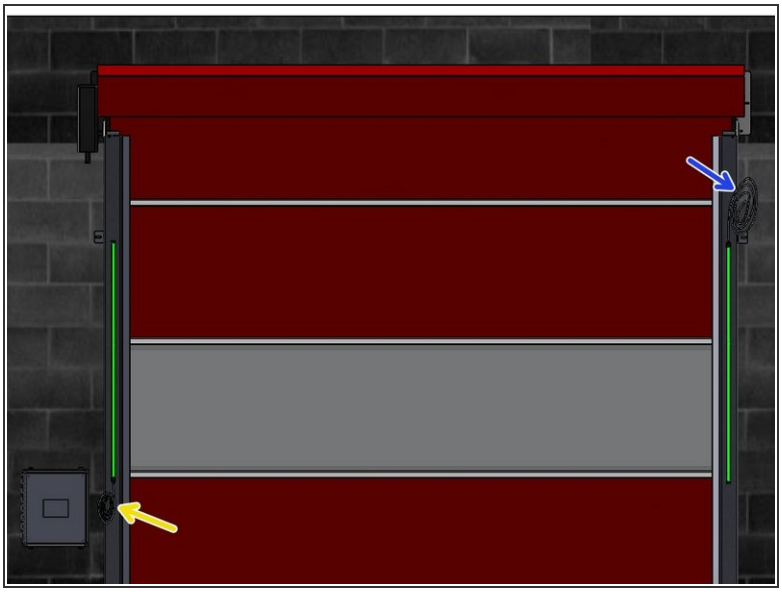


TOOLS:

- 1/16in Flat-Head Screw Driver (1)
- 1/8in Flat-Header Screw Driver (1)
- #2 Phillips Screw Driver (1)
- Wire Stripper/Cutter (1)

Step 1 — Installing the LED Indicator Light System LED Strips



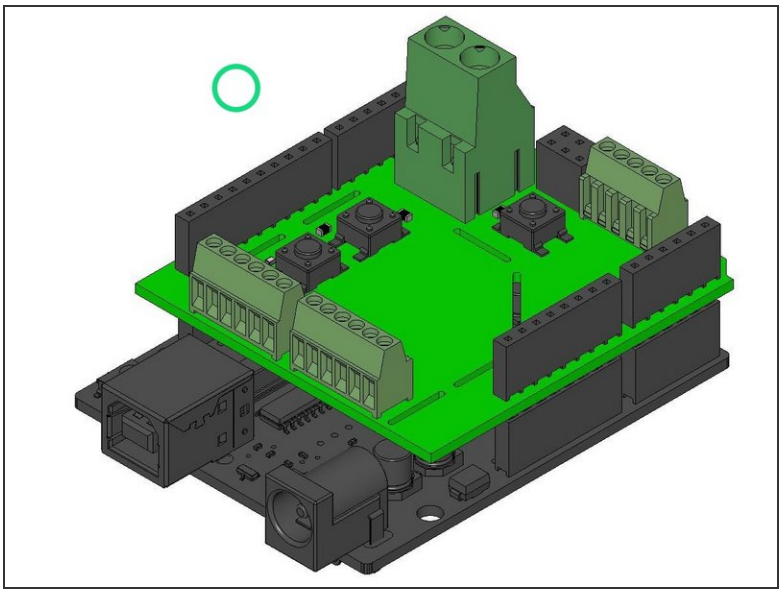


- Each LED Strip Assembly comes with pre-installed Pressure Sensitive Hook and Loop Velcro Strips.
- Peel the Clear Backing off each Velcro Strip (6 Total) and stick the LED Strips onto the Vertical Tracks.
- The LED Strip with the longer cable (25ft) is mounted on the non-drive side of the opening.
  - ⚠ Ensure the LED Strip is oriented such that the shortest possible length of Cable is needed to reach the Control Panel.
- The LED Strip with the shorter cable (10ft) is mounted on the drive side of the opening.
  - ⚠ Ensure the LED Strip is oriented such that the shortest possible length of Cable is needed to reach the Control Panel.

⚠ DO NOT LENGTHEN EITHER OF THE LED STRIP CABLES AS THIS MAY CAUSE INCONSISTENT PERFORMANCE. THE PROVIDED CABLE LENGTHS ARE IN THEIR 'WORST-CASE' CONFIGURATION.

ⓘ If the provided Cables do not reach the Control Panel, you will need to re-route them, or add a Junction Box to house the Microcontroller (see next step) in a location where both Cables can reach it.

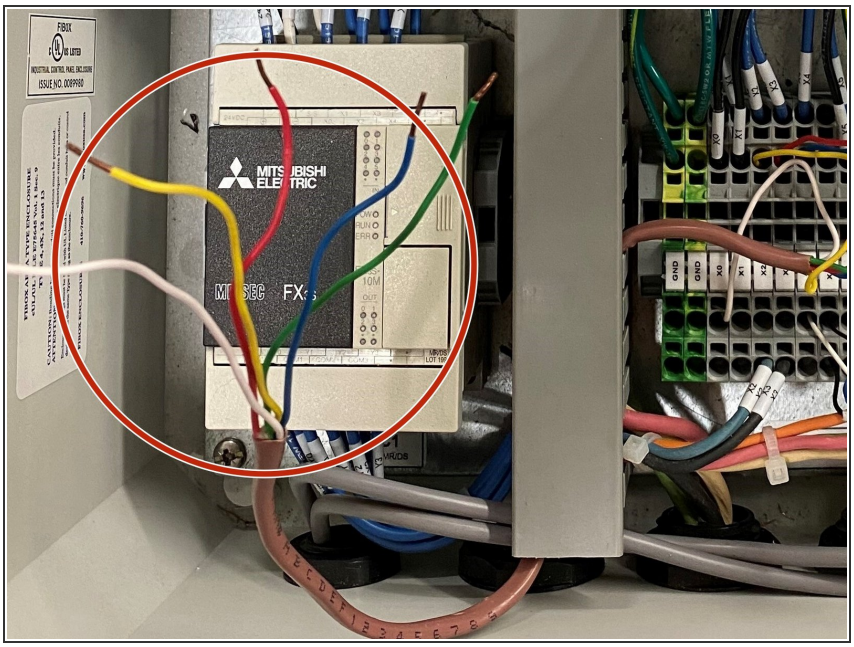
Step 2 — LED Indicator Light System Parts





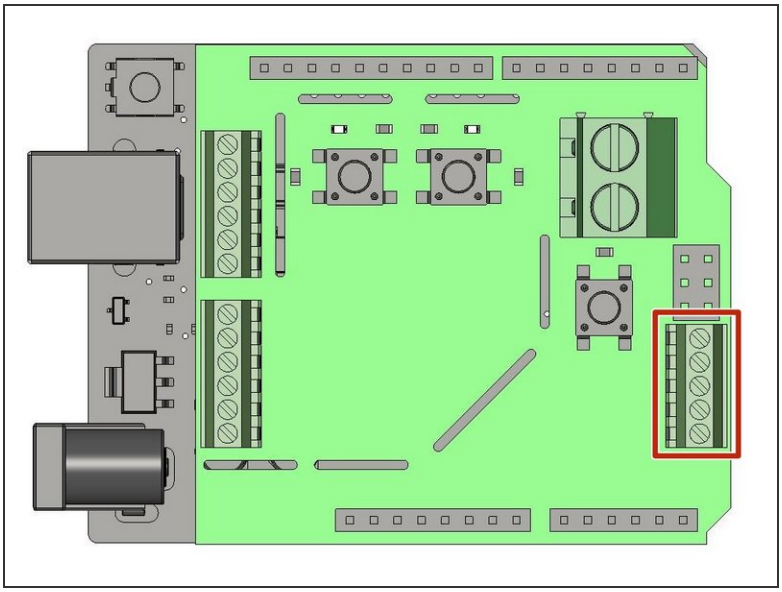
- In your Kit, you will also find the following:
  - One Microcontroller.
  - One Power Supply.
  - 5-Condcutor Cable to make the necessary Electrical Connections inside the Control Panel.

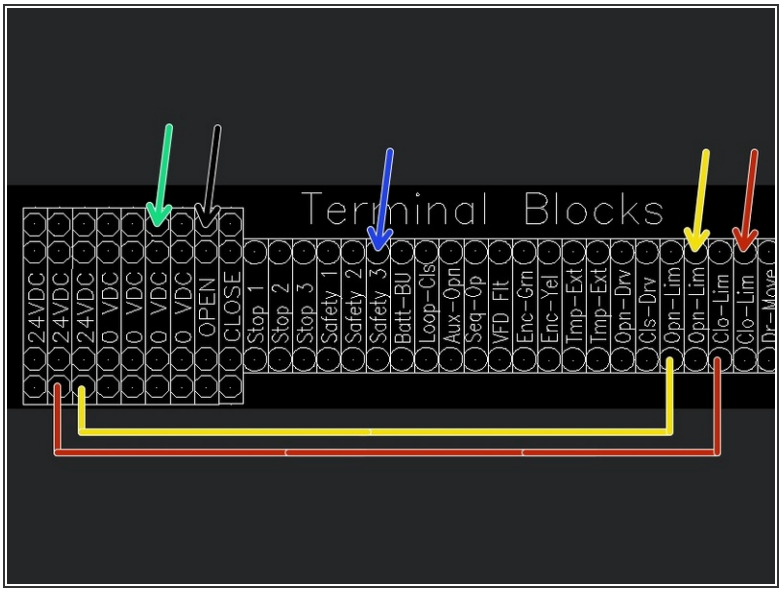
Step 3 — Inside the Control Panel



- Once you have routed the Wires from the LED Strips into the Control Panel, you will have to make a series of Electrical Connections.
- Find the 5-Conductor Cable provided with the LED Light System.
  - ⓘ Colors: Green, Blue, Red, Yellow, White

Step 4 — Wiring: Inside Control Panel

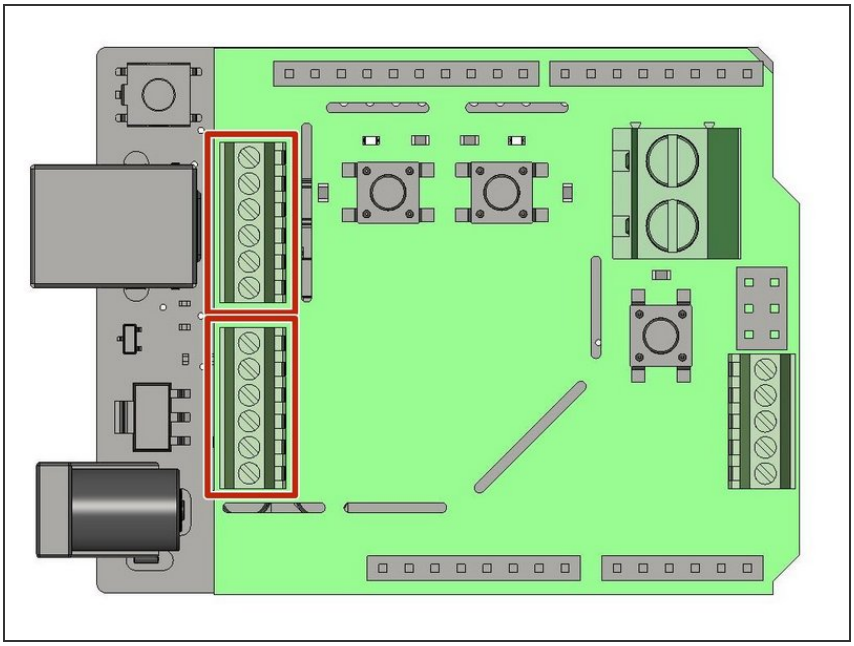




- Located the J3 Terminal Block
  - ⓘ Note the Orientation of the Microcontroller in the Diagram.
- Make the following Connections on the Microcontroller (from Top to Bottom) using the 5-Conductor Cable:
  - White, Yellow, Red, Blue, Green
- On the other end of the 5-Conductor Cable, the wires Terminate in the Control Panel as seen in Images 2.
  - ⚠ WHITE WIRE SHOWN AS BLACK ARROW IN IMAGE 2.
  - ⓘ Multiple Wires can be placed in the same Terminal.

⚠ (2) Jumper Wires will need to be added in the Control Panel between 24VDC to Opn-Lim, and between 24VDC to Clo-Lim.

Step 5 — Wiring: LED Strips to Microcontroller



- Bring the (2) 3-Conductor Cables from the LED Strips into the Control Panel.
- Locate the J6 and J7 Terminal Blocks
  - ⓘ Note the Orientation of the Microcontroller in the Diagram.
    - ⚠ Each Terminal Block receives Wires from One of the LED Strips.
- Make the following Connections (from Top to Bottom) on each Terminal Block:
  - Red, White, Empty, Empty, Empty, Black

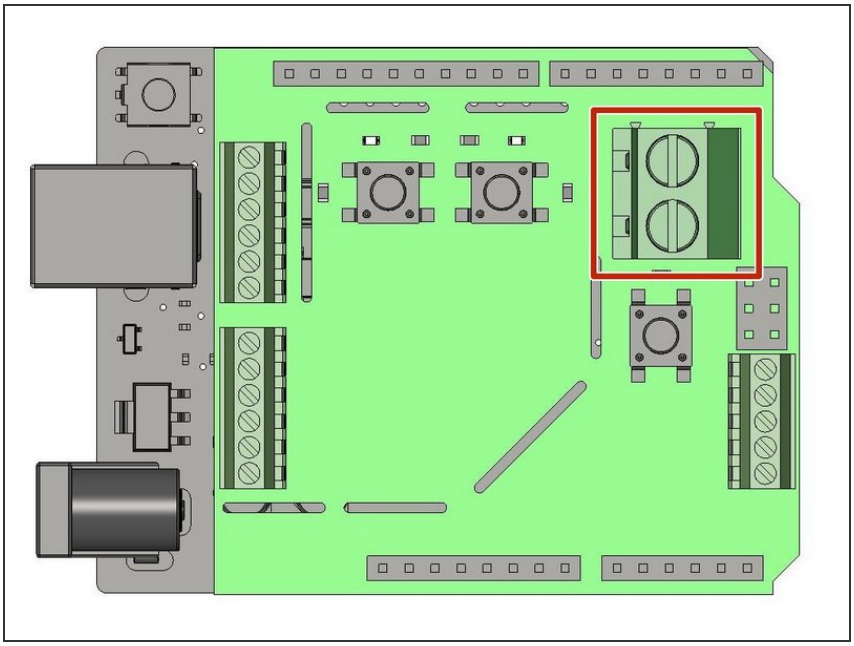
Step 6 — Power Supply



- Locate the Provided Power Supply.
- Bring Power (Single-Phase 120 to 240VAC) to the Power Supply via the Plug or by Hardwiring.
  - ⚠ Power needs to come from an Outside Source, and should NOT be pulled from the Supply that is feeding your Control Panel.

⚠ Make sure Electrical Requirements can be fulfilled without straining the System.

Step 7 — Wiring: Powering the Microcontroller



- Cut the Barrel Connector off of the Output Side of the Power Supply.
- Bring the Power Supply Output into the Control Panel.
- Locate the J9 Terminal Block
  - ⓘ Note the Orientation of the Microcontroller in the Diagram.
- Make the following Connections (from Top to Bottom):
  - Red, Black

Step 8 — Setting Time-to-Close Part 1

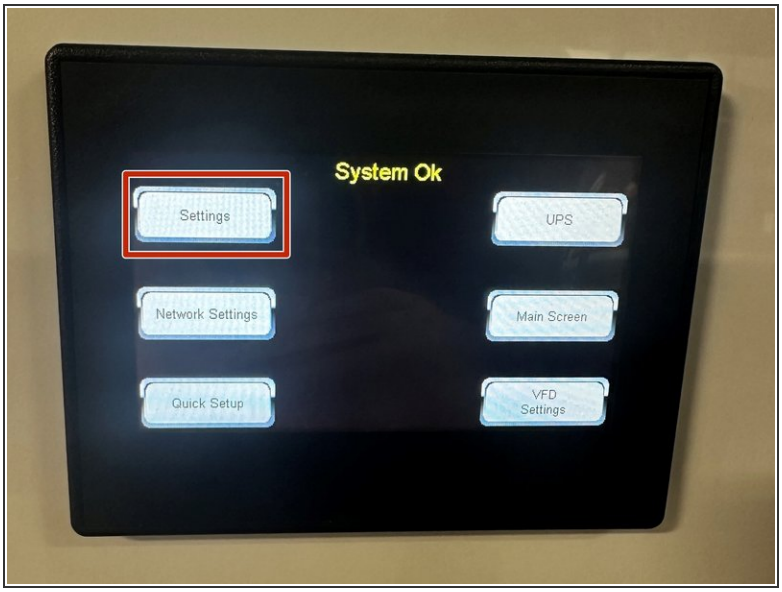


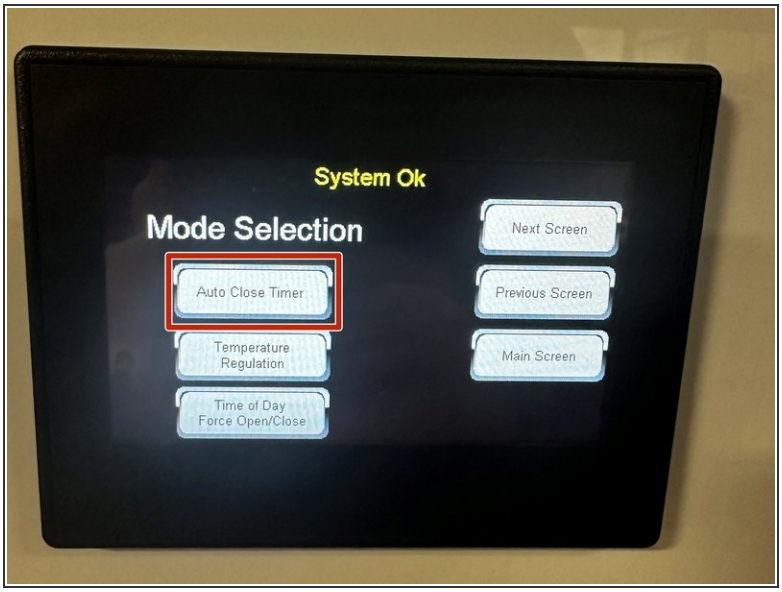




- Before we can Program our LED Door Indicator Light System, we must set up the Time-to-Close (TTC) Feature on our Control Panel.
- From the Home Screen Press the "SETUP AND DIAGNOSTICS" Button.
- On the Next Screen, Press the "SETUP" Button.
- Tap and Enter your Password.
  - ⓘ Default Password is 123.

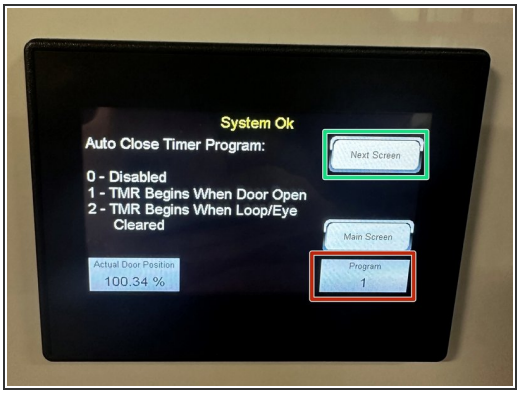
Step 9 — Setting Time-to-Close Part 2





- Tap the "SETTINGS" Button.
- On the Next Screen, Press the "AUTO CLOSE TIMER" Button.

Step 10 — Setting Time-to-Close Part 3







- To Enable the Auto Close Timer Program, Tap in the Program box, and Type "1" in the on-screen Keypad. Hit Enter.
- Tap the "NEXT SCREEN" Button.
- To Set the Auto Close Timer value, Tap in the Set Point box, and in the on-screen Keypad, Type the desired Time (in seconds) before you want the Door to Automatically Close. Hit Enter.
- Tap the "MAIN SCREEN" Button.
- Then Tap the "OPERATOR SCREEN" Button.
- Your Auto Close Timer is Setup!

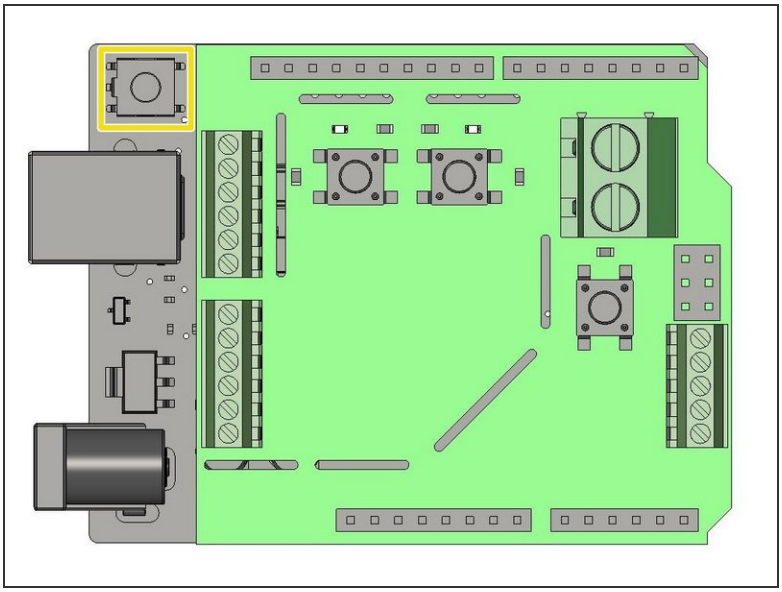
Step 11 — Changing Limit Outputs to N/C





- From the Operator Screen, Tap the Following Button Sequence:
  - "SETUP AND DIAGNOSTICS"
  - "SETUP"
  - "SETTINGS"
  - "NEXT SCREEN"
  - "N/O AND N/C LIMIT OUTPUTS"
- Toggle both Limit Outputs to be N/C

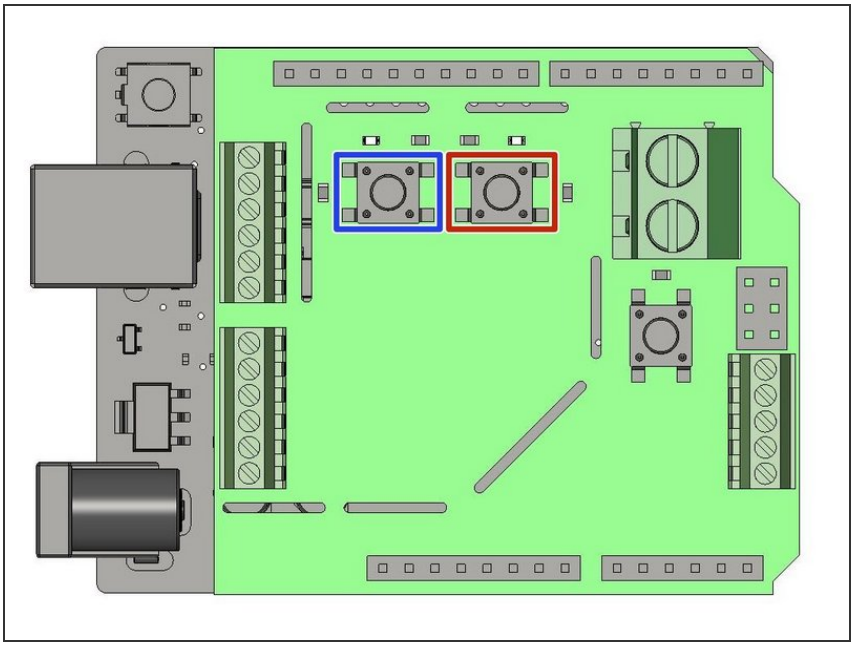
Step 12 — Programming the Microcontroller





- When first Powered On, the LED Strips will Flash Green for One Second. At this Point, Proceed to the
- If at any point, you need to Restart the Programming Sequence, Press the 'RESET' Button.
  - ⓘ When the 'RESET' Button is Pressed, the LEDs will Flash Green for One Second. When the Green turns Off, you are ready to Begin the Programming Process.

Step 13 — Programming the Microcontroller



- Locate the Blue Button Labeled SW1
  - Each Press of this Button adds One Second to the Timer associated with the LED Light System (10 Presses = 10 Seconds).
  - To Sync the LED Light System with your Control Panel, you must Press SW1 One time for every Second Programmed on your Control Panels' TTC Feature.
    - ⓘ If your TTC is set for 10 Seconds, you must Press SW1 Ten times.
- Locate the Blue Button Labeled SW2
- Once you have Synced your LED Light System with your Control Panel by Pressing SW1, Press the SW2 Button One time.
  - ⓘ This Locks in your Programming, and Initiates the Light System's Operation.