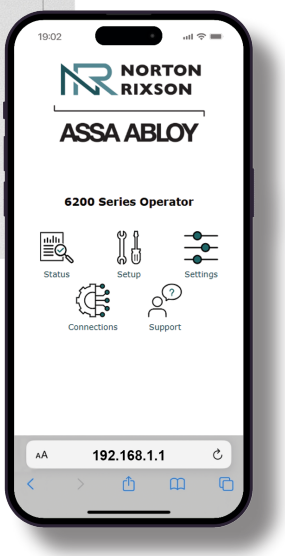
6200 Series Full Feature Low Energy Operator
Programming & Wiring Instructions
Onboard or WiFi Smart Device

⚠ WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

Pour la version francaise voir www.nortonrixson.com.

READ AND FOLLOW ALL INSTRUCTIONS.
SAVE THESE INSTRUCTIONS.



These programming instructions guide setup of the 6200 operator via the control board or a WiFi smart device.

80-9363-0022-020 Rev 4 05/25

Approved 2025-05-20

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Contents

Wiring Diagrams

FCC:

Class B Equipment

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the use is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning:

Changes or modifications to this device may void the user's authority to operate the equipment.

Industry Canada:

This Class A digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations.

Cet appareillage numérique de la classe A répond à toutes les exigences de l'interférence canadienne causant des règlements d'équipement.

Declaración de México:

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

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Initial Setup

1. With building power feed turned off, route 120VAC wiring through conduit hole in backplate. (Figure 1)
2. Connect 120VAC power to power supply: HOT to “L”, NEUTRAL to“N”, GROUND to Ground. (Figure 1)
3. Use supplied green connectors to wire in any devices needing outputs, such as electric strikes. (Figure 5 on page 4) See Input Connections and Output Connections on page 12 for information.

With Optional AC Power Plug bracket installed:

1. Plug the female end of the provided AC Power cord into the plug of the AC Power Bracket. (Figure 2). **Do not plug the male end of the cable into a power source at this time.**
2. Wire any additional devices, such as electric strikes, to the green Input and Relay terminal block connections (Figure 5). Refer to Input Connections and Output Connections on page 12 for additional information.

With Surface Conduit Assembly installed: (Figure 3)

1. Confirm the building power to the vertical drop is off.
2. Set the bracket switch to the “OFF” position.
3. Remove the conduit nut and place the conduit (with wires) through the high voltage conduit hole in bracket. (High and Low voltage wiring should be in separate conduits)
4. Replace conduit nut and tighten.
5. Place wires from conduit into the following terminals: (Figure 4)
   - L = Line (hot) - Secure wire using a small flat head screw driver
   - N = Neutral - Secure wire using a small flat head screw driver
   - ⏚ = Ground - Place the ground wire under the green screw head and tighten with a #2 Phillips head screwdriver
6. Flip the bracket switch to the “RESET” position.

continued on next page...

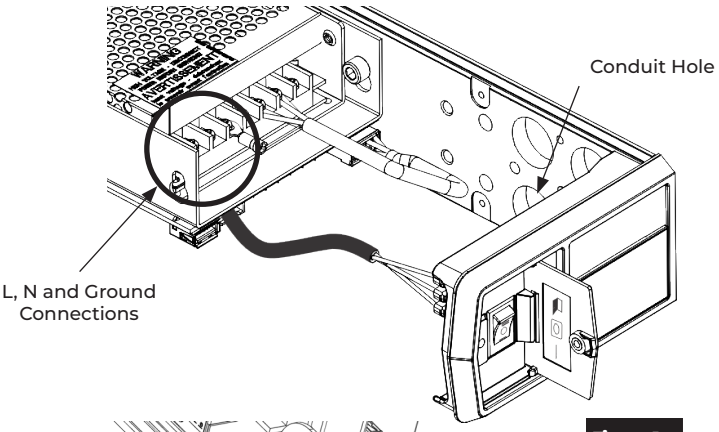


Figure 1

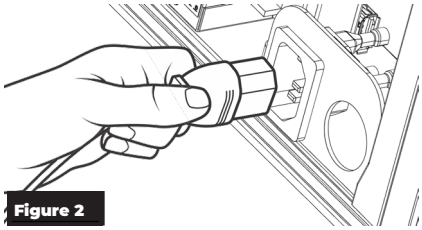
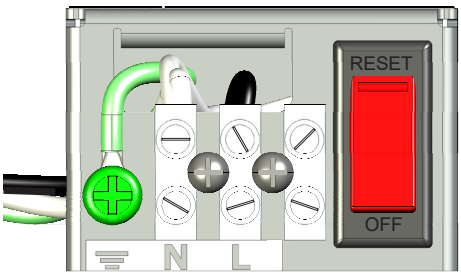


Figure 2



L, N, and Ground Connections

Figure 3

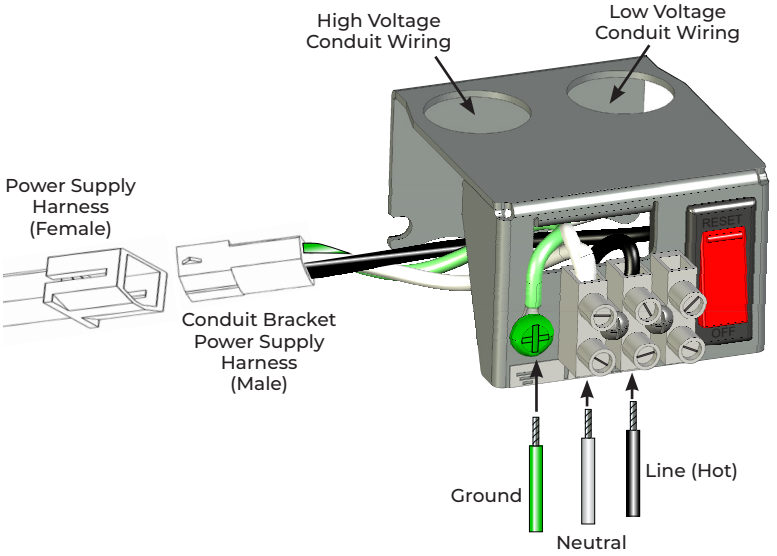


Figure 4

Initial Setup (cont.)

Once initial power has been wired:

1. Turn on the building's power feed, or if using the AC Power Plug bracket, plug in the male end of the power cable into a power source.
2. Press and hold the Factory Reset button until all LEDs are lit, then release. (Refer to Figure 5 for LED and Setup Button location.)
   - The POWER LED on the control board will be illuminated solid red.
     NOTE: If red POWER LED is flashing, refer to the Error Codes chart on page 13 or contact Technical Product Support.
   - The STATUS LED on the control board will flash white every 2 seconds.
   - The CLOSE button LED (located in the bank of Setup Buttons) will flash orange steadily.
3. Confirm the ON/OFF/HO switch is in the ON position. (Figure 6)
4. Program the operator using one of the following two methods:

   "Setup Using Control Board" on page 5

   "Operator Setup via WiFi" on page 7

   NOTE: Basic setup and programming can be performed using either programming method. Additional programming options are available through WiFi programming only.

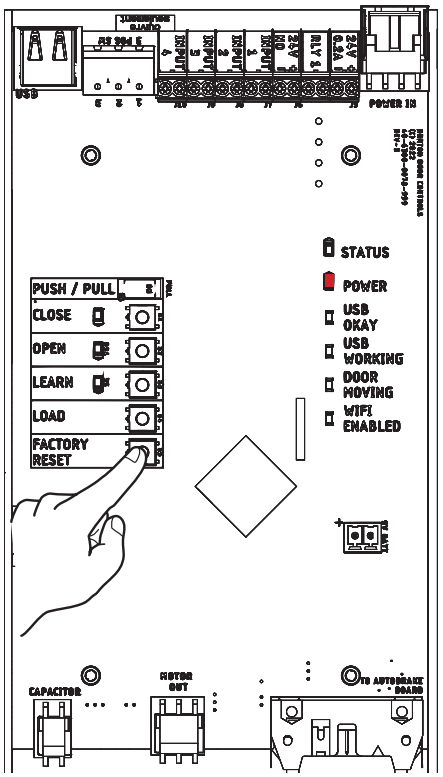


Figure 5

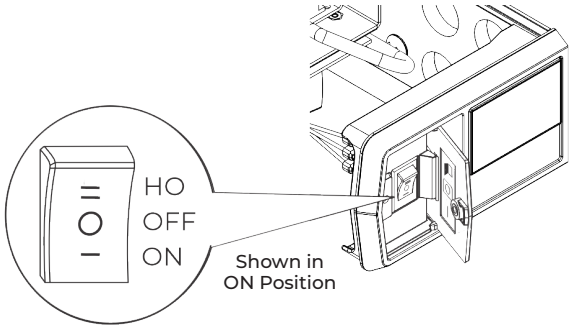


Figure 6

Setup Using Control Board

Select arm type.

1. Depending on your application, select PUSH or PULL by moving toggle switch LEFT or RIGHT. (Figure 7 and Figure 8)

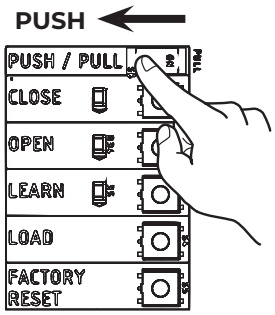


Figure 7

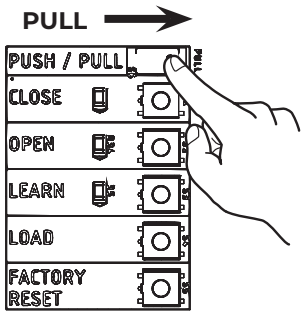


Figure 8

Set door open and door closed positions.

1. To set closed position, fully close door. Press and release CLOSE button on board. Flashing ORANGE LED should turn solid. (Figure 9)

   NOTE: Any time door is in closed position, orange LED should be solid.

2. GREEN OPEN LED should now be flashing.
3. To set the fully open position, manually open door to open position and hold door there.

   NOTE: If there is a wall or door stop at open position, hold door slightly away from wall or stop.

4. Press and release OPEN button on board. Flashing GREEN OPEN LED should turn solid. Let door close. (Figure 10)

   NOTE: Any time door is in open position, green LED should be solid.

   NOTE: If open position is not set within 30 seconds of setting closed position, closed position must set again.

   NOTE: Once door has fully closed, make sure there are no obstructions that could prevent door from opening. Latching hardware must not prevent door from opening during following step.

5. The LEARN LED will be flashing to indicate operator must now learn its internal settings. Press and release LEARN button on board. BLUE LEARN LED will become solid and door will open in small increments. Allow door to open and close without interference. (Figure 11)

   NOTE: After operator has learned settings, if spring is adjusted or accessories are attached to door that would make door heavier, operator MUST relearn internal settings by repeating step 5.

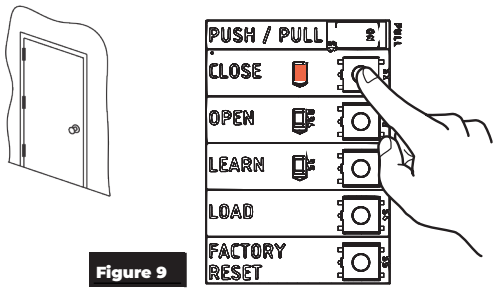


Figure 9

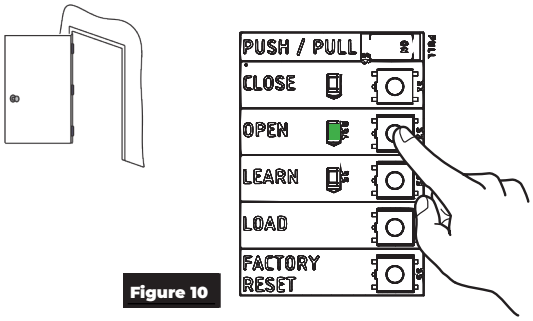


Figure 10

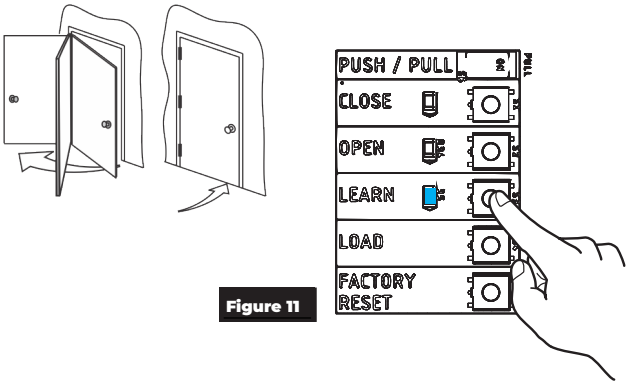


Figure 11

Setup Using Control Board (cont.)

Adjust opening and closing.

Use WiFi programming to adjust backcheck, latch and sweep. (Figure 12)

Speed/Force and Timing/ Location settings must be adjusted to meet ANSI BHMA A156.19 (American National Standard for Power Assist and Low Energy Power Operated Doors) requirements for opening and closing based on door weight and width.

Figure 12

Continue with Input & Output Connections on page 12

Operator Setup via WiFi

After the operator has been successfully installed and power has been applied (refer to “Initial Setup” on page 3), follow these steps to program the operator via the WiFi application.

1. Turn on the operator WiFi by toggling the 3-Position switch on end cap three (3) times. (Figure 13)

   To confirm that WiFi has been turned on:

   - The red WIFI ENABLED LED on the operator’s control board will indicate that WiFi has been successfully turned on. (This will only be visible if the operator cover has been removed.)
   - The operator SSID will be displayed in the mobile device’s list of available WiFi connections, confirming that WiFi has successfully been turned on. (Refer to Step 2 and 3 below)

   NOTES:
   – WiFi automatically turns off after 20 minutes of inactivity.
   – For further security, WiFi can be turned off immediately by toggling 3 Position switch again.
   – The operator serial number and password are located next to the Network QR code on the operator end cap. (Figure 14)

2. Connect to the operator’s WiFi network.

   To manually connect:

   – Open the WiFi or Networks application on the smart device and find the associated operator network (beginning with NDC6200_, followed by the operator’s SSID).
   – Once found, connect to the network. (Figure 15)
   – Enter the operator’s password and click “Join”. (Figure 16)

   To connect using the Smart Device’s camera:

   – Open the camera application on the smart device.
   – Scan the Network QR Code located on the switch end cap of the operator to automatically connect to the product’s WiFi network.

NDC6200_YOUR SERIAL NUMBER

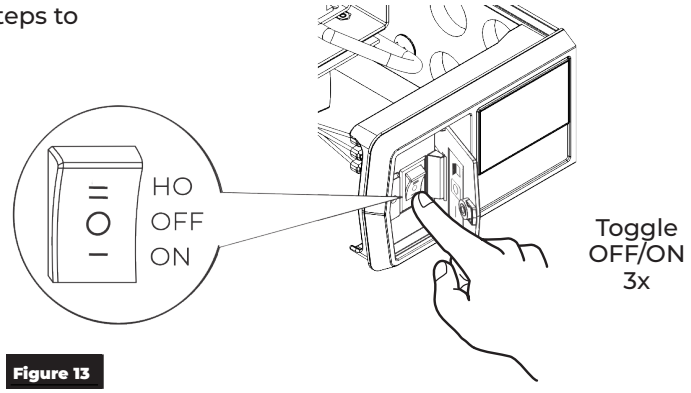


Figure 13

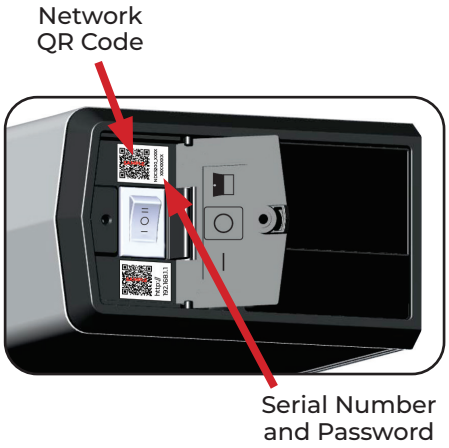


Figure 14

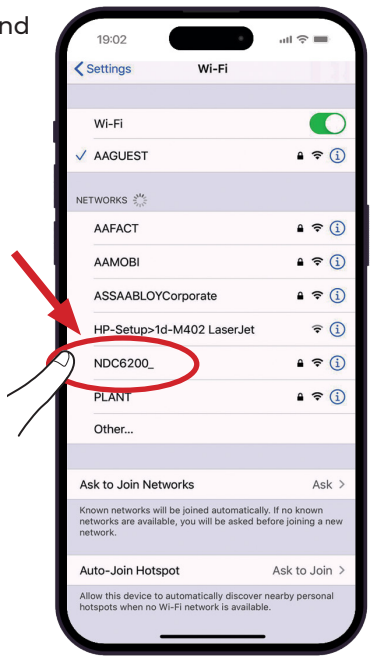


Figure 15

Figure 16

Operator Setup via WiFi (cont.)

3. Access the Product Website.

   To access the website manually:

   – From the smart device's web browser, enter 192.168.1.1 into address bar. (Figure 18)

   To access the website using the Smart Device's camera:

   – Use the camera application on your smart device to scan the Product Website QR Code located on the switch end cap of the operator. (Figure 17)

The 6200 Series Operator homepage will be displayed. (Figure 19)

Once the 6200 Series Operator homepage is displayed, the connection has been successfully established.

On the Operator homepage, icons are available for quick access to each application page.

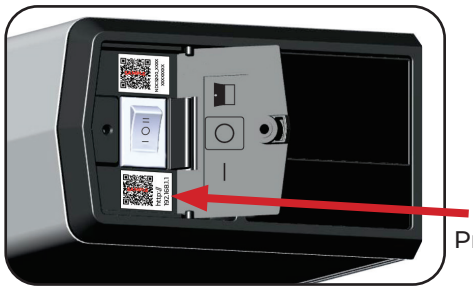


Figure 17

Enter IP: 192.168.1.1

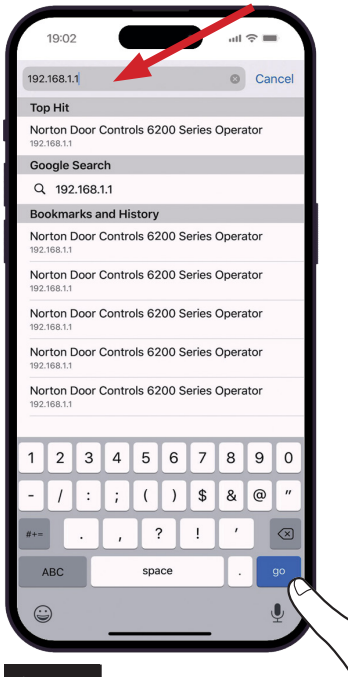


Figure 18

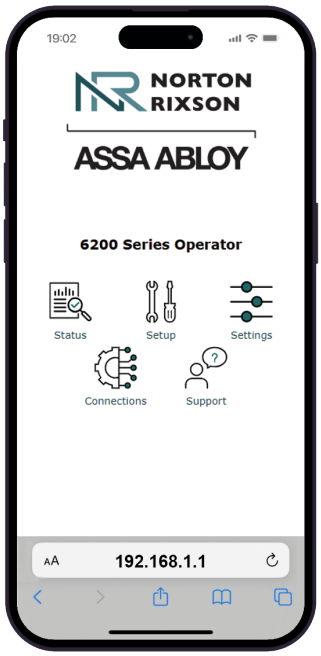


Figure 19

Status

Use Status page to quickly access important information about your operator. (Figure 20)

NOTE: "Door Setup Needed" will be displayed if door setup has not been completed.

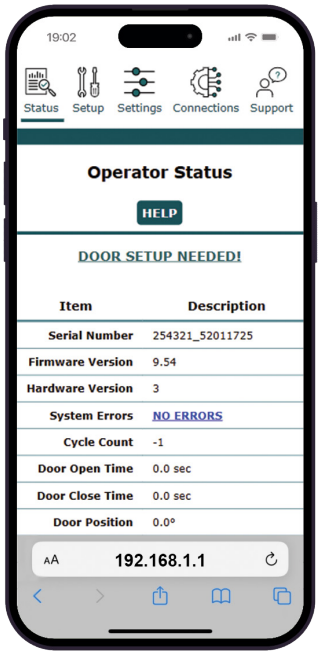


Figure 20

Operator Setup via WiFi (cont.)

Setup

To set up your operator, select Setup page and proceed through three steps. (Figure 21)

1. Manually close door and select "Set Closed Position".
2. Open door to fully open position. While holding door open, select "Set Open Position".
3. Close door completely and select "Learn" to perform Learn process.

   NOTE: Door will automatically move through an opening cycle. Be sure there is no obstruction.
4. Refresh browser page to confirm all steps have ✓ indicating setup has been successful. (Figure 22)

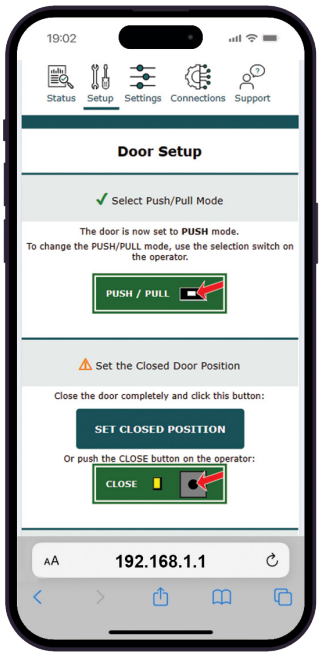


Figure 21

Figure 22

Settings

Speed/Force (Figure 23) and **Timing/ Location** (Figure 24) can be adjusted to meet BHMA requirements.

Select setting and adjust slider to desired value then save.

Speed/Force and Timing/ Location settings must be adjusted to meet ANSI BHMA A156.19 (American National Standard for Power Assist and Low Energy Power Operated Doors) requirements for opening and closing based on door weight and width.

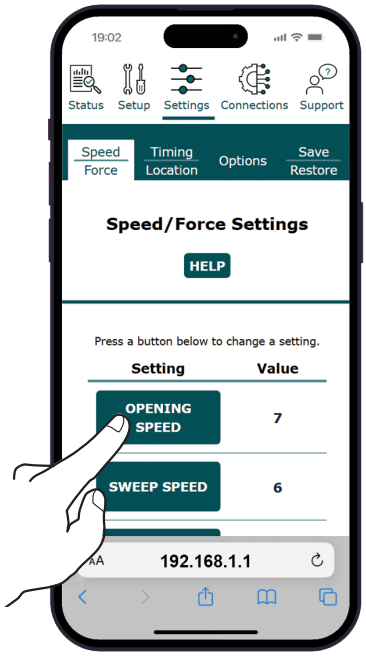


Figure 23

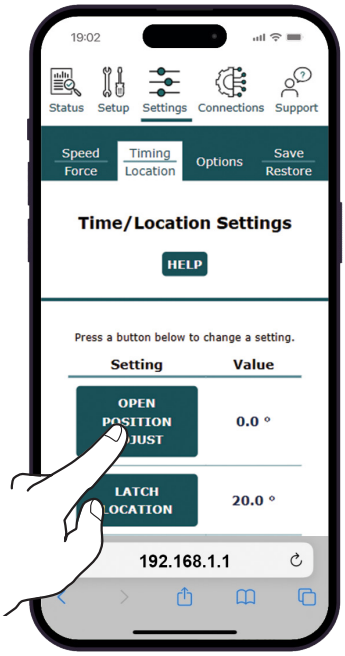


Figure 24

Operator Setup via WiFi (cont.)

Options

Select setting and change value then save. (Figure 25)

Save/Restore:
Use this page to transfer settings setup from one operator to another. (Figure 26)

1. Save settings to a file by selecting “Save Operator Settings to a File”.
2. Connect to receiving operator’s WiFi.
3. Select “Select Setting file to Restore” and choose file saved in step 1.
4. Select “Restore Operator Settings from File” to load new settings.

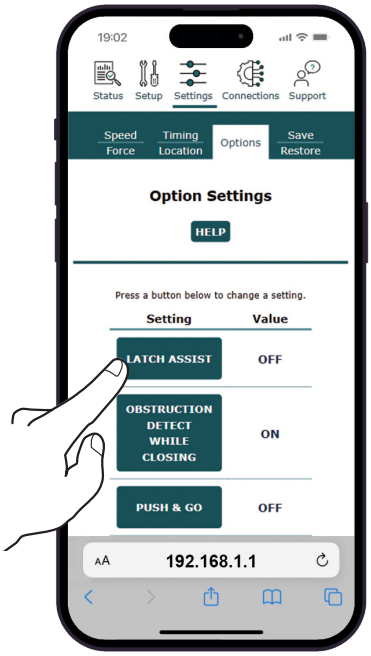


Figure 25

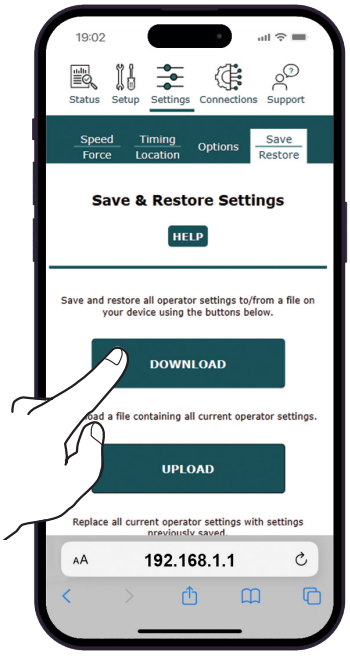


Figure 26

Option Definitions

- **Latch Assist:** At closed position, after an activation, the door is pulled in. After the door has closed, the door is pulled in to assist with latch release/engagement.
- **Obstruction Detect While Closing:** Door will reverse to open position if it hits an obstruction while closing.
- **Push & Go:** As the door is manually opened, the operator “senses” movement and opens door to the full-open position.
- **Powered Close:** Additional force to assist door closing between 7° and 2°.
- **Power Assist:** Senses the door is being opened manually and applies small amount of power to assist user in opening the door with force less than 5 lbs. Door opens only as far as it is moved manually, then closes once released.
- **Ignore Obstruction <10° From Closed:** Used with door mounted presence sensor. Operator will ignore obstruction input from sensor in the last 10 degrees of closing.

Operator Setup via WiFi (cont.)

Connections

Operator inputs and outputs can be customized from Connections page. (Figure 27)

NOTE: Input and Output numbers are labeled on PCB. (Figure 30 on page 12)

To change function, select input or output then scroll through drop-down menu to select function. (Figure 28)

NOTE: For definitions, see Input and Output Connections. (page 12)

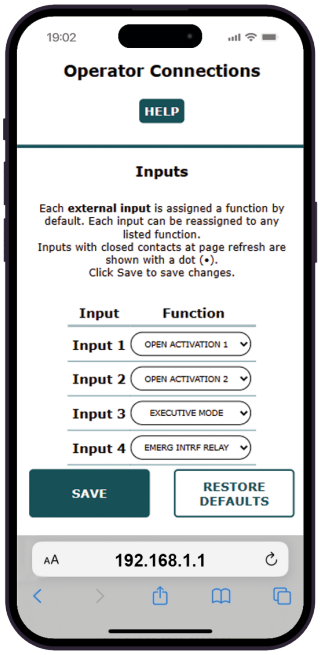


Figure 27

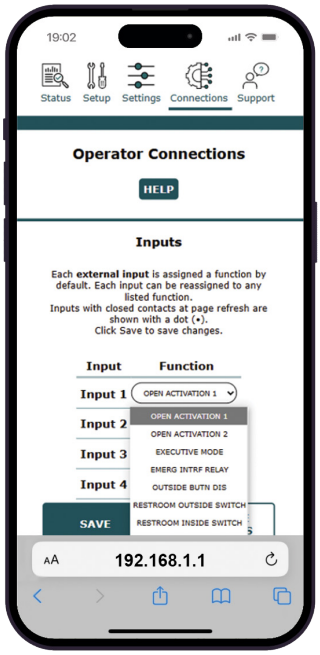


Figure 28

Support

Support page can be used to restart or restore settings to factory defaults. (Figure 29)

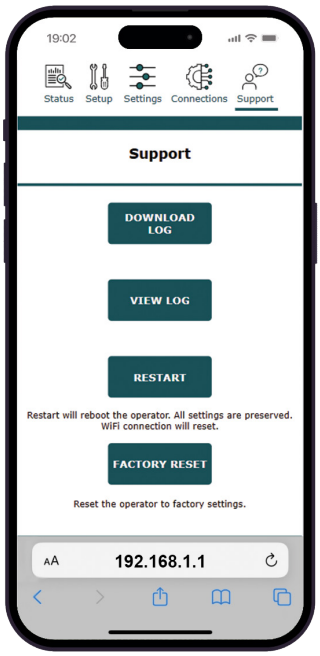


Figure 29

Continue with Input & Output Connections on page 12

Input Connections

Use green 2-position connectors on control board to add any necessary inputs. (Figure 30)

NOTE: Inputs can be configured to a desired setting using WiFi programming.

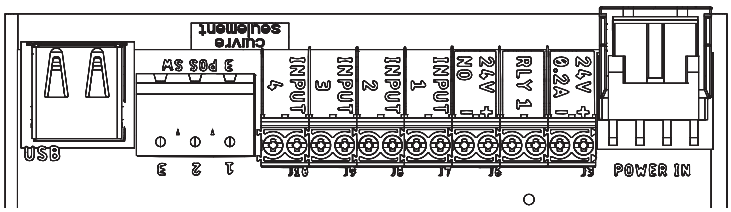


Figure 30

Default Inputs

Input 1: Activation 1
Momentary contact closure of this input cycles door through an automatic open / close cycle. Tied to Open Delay 1.

Input 2: Activation 2
Momentary contact closure of this input cycles the door through an automatic open / close cycle. Tied to Open Delay 2.

Input 3: Toggle / Executive Mode
Momentary contact closure of this input sends a closed door to open position or an open door to closed position.

Input 4: Emergency Interface Relay
Continuous contact closure of this input puts operator in a passive closer mode, where door functions as a typical door closer and accepts no activations. Once contact is removed, unit goes back to operator mode.

Selectable Inputs

Closing Obstruction
Contact closure of this input while door is open or closing triggers operator to return to open position. This is used in conjunction with presence sensors mounted to closing side of a door to prevent door from hitting an obstruction.

Opening Obstruction
Contact closure of this input while door is closed or opening triggers operator to stall. If contact is not removed after 10 seconds of closure, operator will return to closed position. This is used in conjunction with presence sensors mounted to opening side of a door to prevent door from hitting an obstruction.

Outside Button Disable
Continuous contact closure of this input triggers operator to disable Input 2 / Activation 2. This is typically used for switching off an outside wall plate.

Output Connections

Use green 2-position connectors on control board to add any necessary outputs, such as electric strikes. (Figure 31)

NOTE: Relay outputs can be customized.

Relay 1 Output: Normally open relay that closes for 3 seconds after an activation to open.

Normally Open: 24VDC output up to .4 Amp draw that closes after an activation to open.

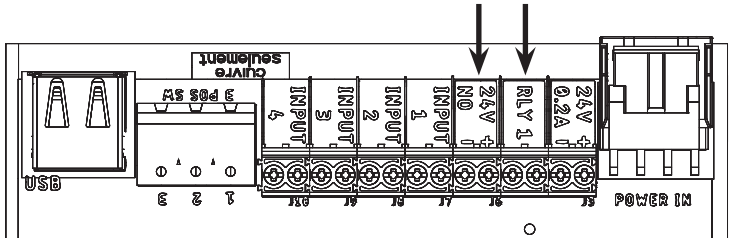
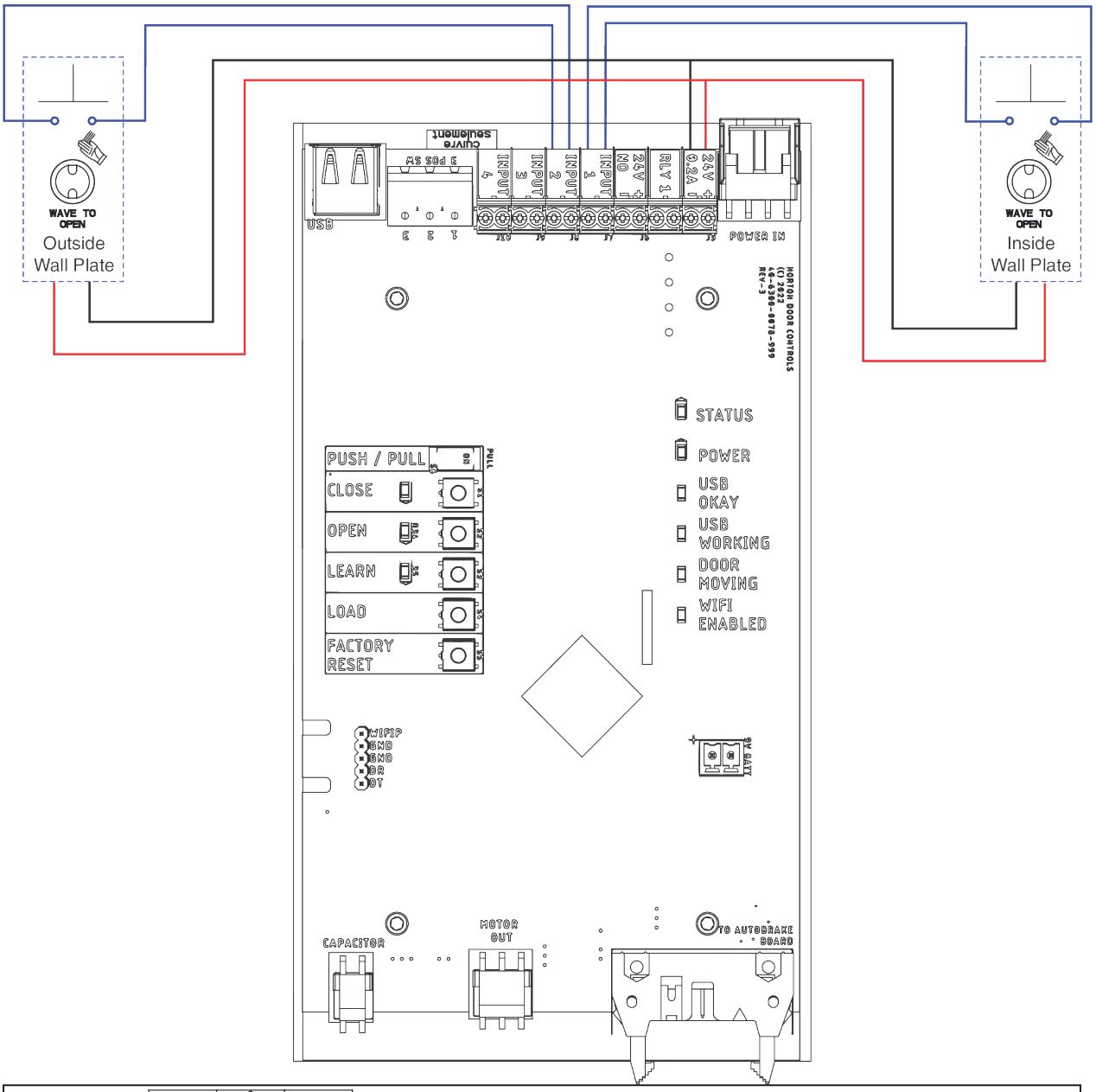


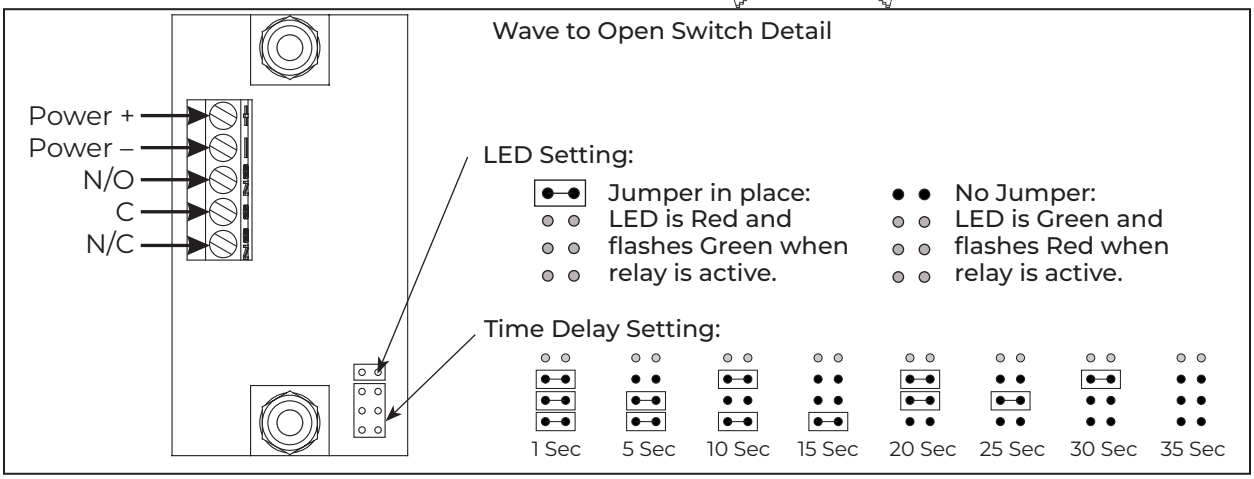
Figure 31

Error Codes

Error Codes for RED POWER LED Flashes		
Number of Flash-es	**Cause**	**Solution**
1	—	Reset back to factory defaults by pressing and holding POWER button until all LEDs light up then release. Unit will reset and CLOSE button will be flashing. Repeat step to set Open and Closed Positions and Learn process.
2	24VDC power error too high or too low.	Check incoming voltage to power supply and from power supply to board.
3	Error occurred during Learning process.	If door hit obstruction, reset to factory defaults by pressing and holding POWER button until all LEDs light up, then release. Repeat steps to set Open and Closed Positions and Learn process.
		If door did not hit obstruction, inspect hinges or door / frame for excessive wear, misalignment, etc. Replace worn components and repeat steps to set Open and Closed Positions and Learn.
4	—	Ensure all harnesses are plugged in and secure - focus on motor wires.
5	—	Ensure all harnesses are plugged in and secure - focus on harnesses attached to backplate.
6	—	Ensure all harnesses are plugged in and secure - focus on main board harnesses.
7	Motor overheating.	—
8	—	Ensure all harnesses are plugged in and secure - focus on harnesses attached to backplate.
9	TEMP connector not plugged in.	Plug in TEMP connector on backplate.

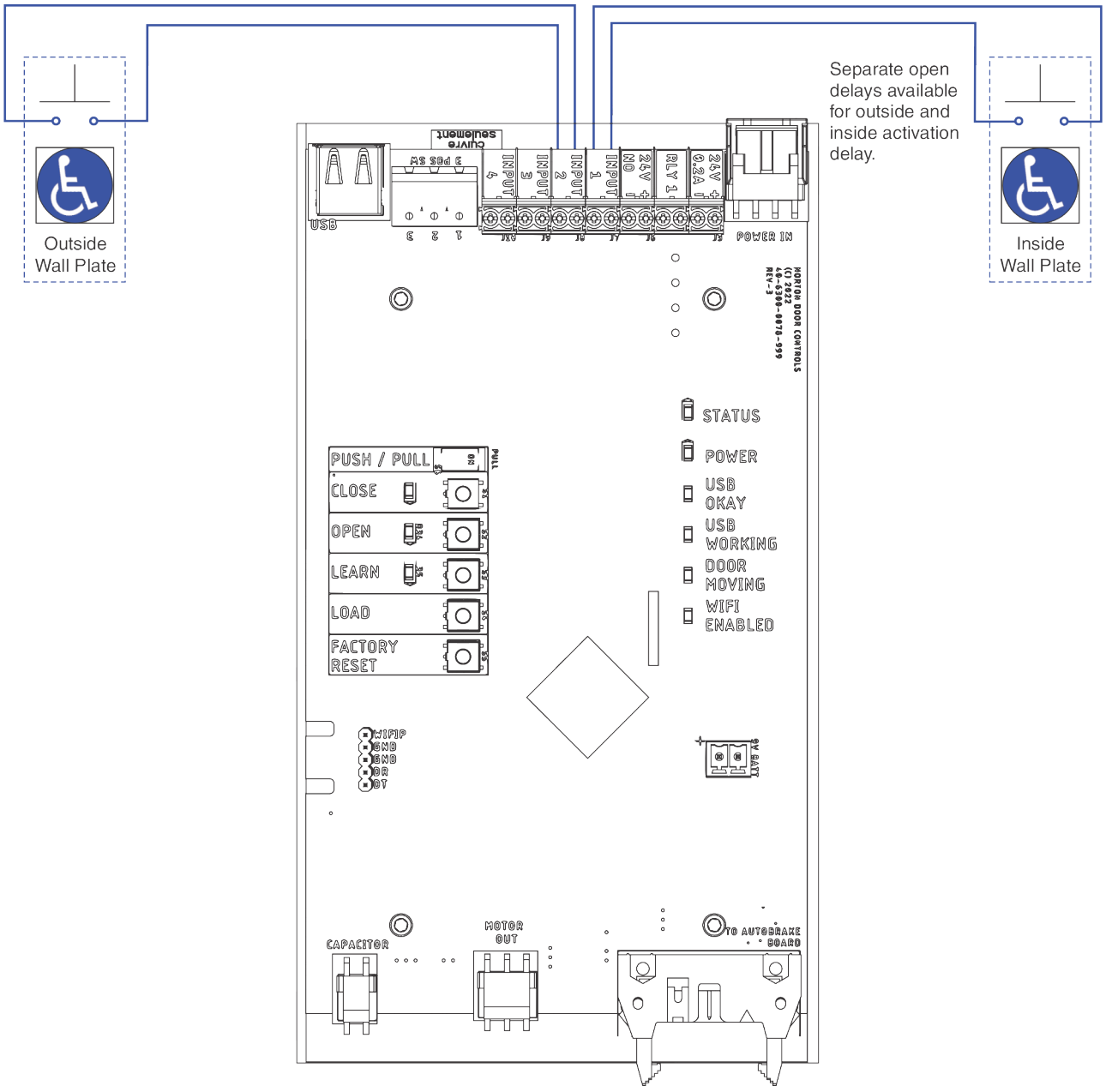
Wave to Open Wiring Diagram



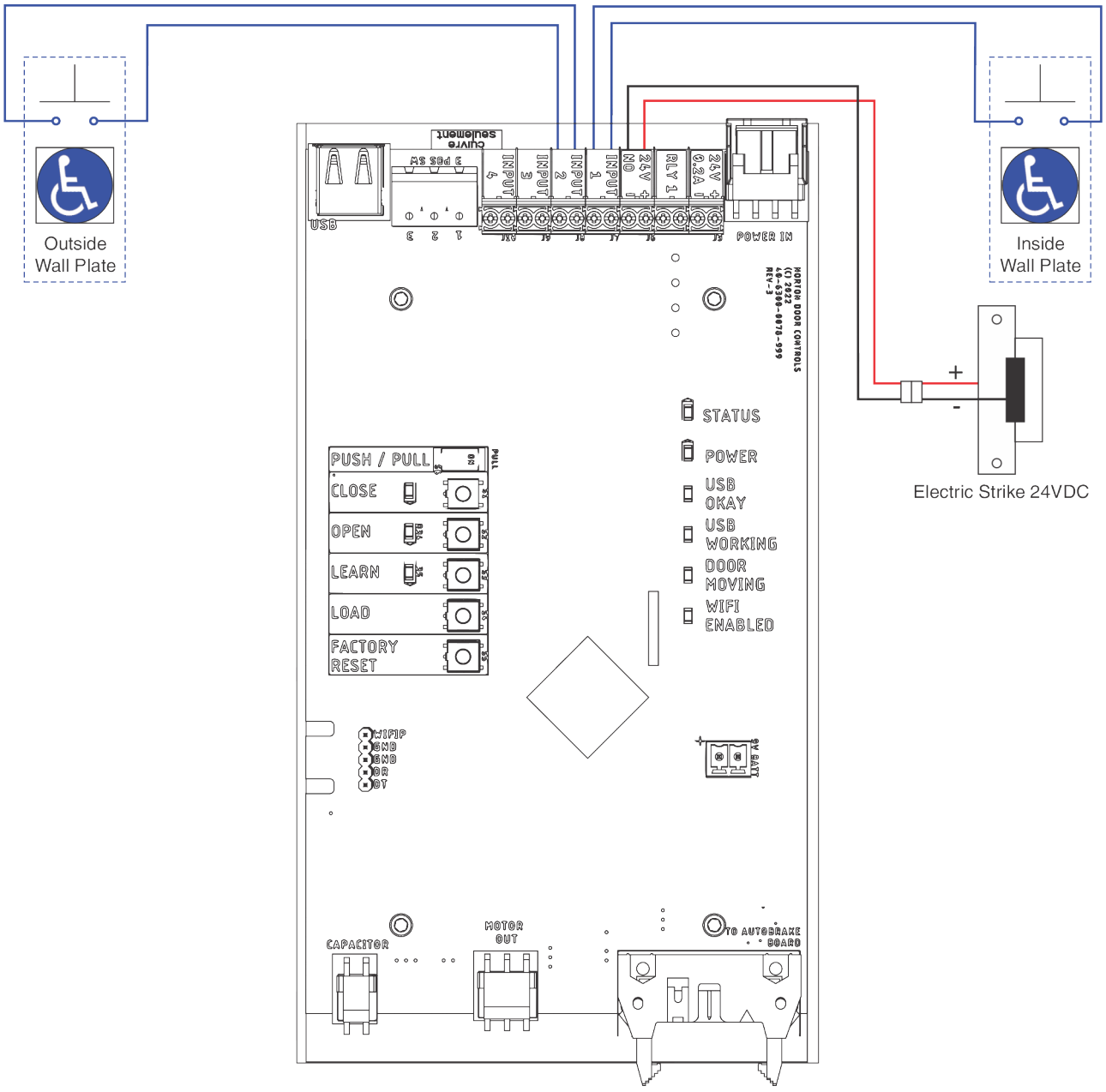


Approved 2025-05-20

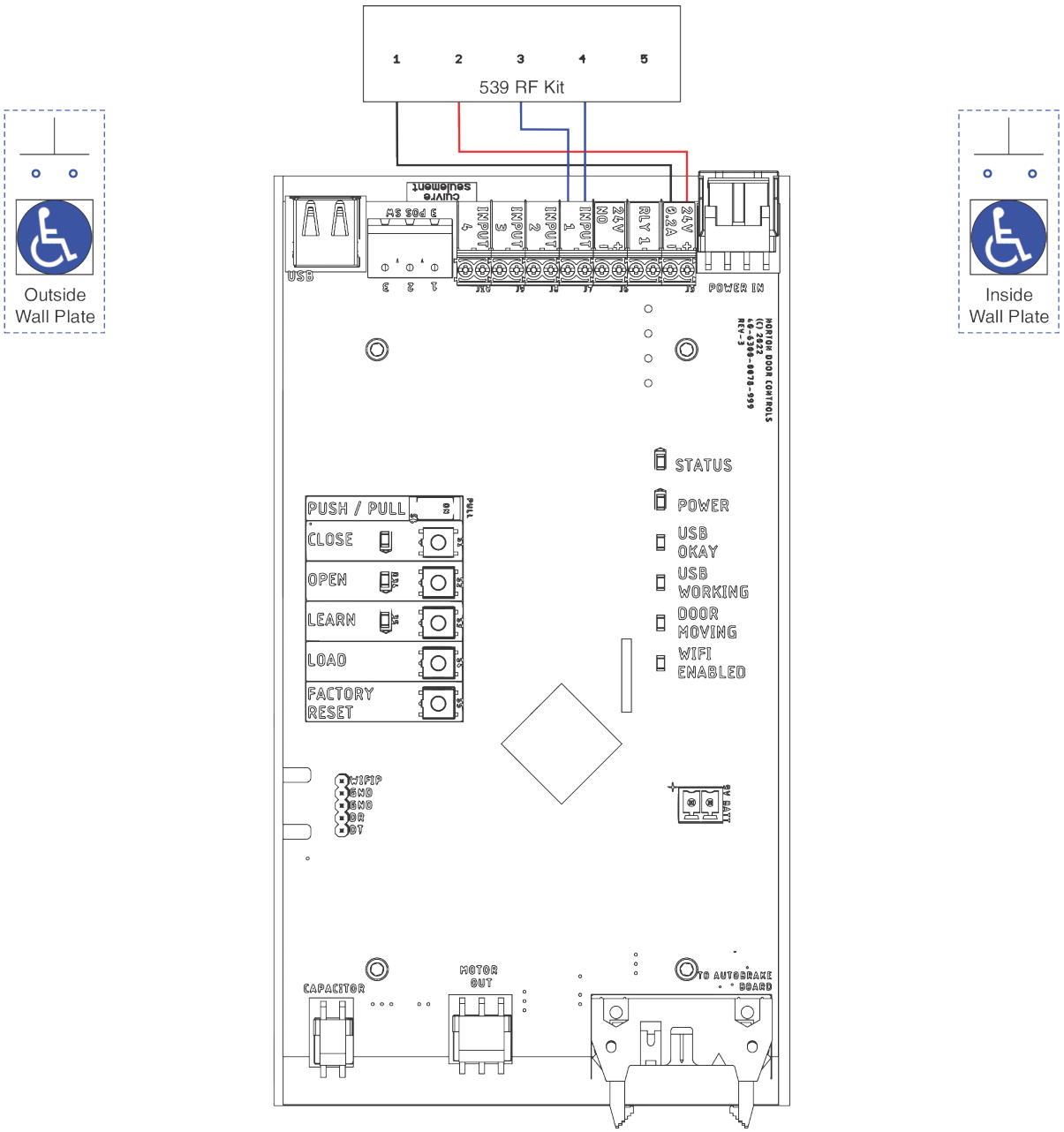
Standard Activation Wiring Diagram



24VDC Fail Secure Electric Strike Wiring Diagram

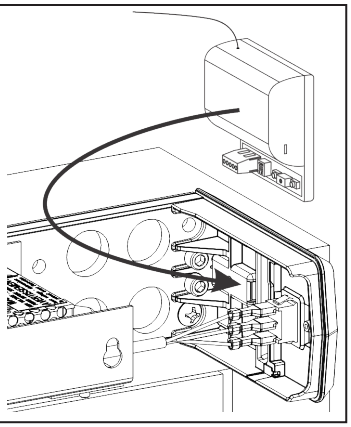


RF Wiring Diagram



To install RF receiver:

1. Position supplied hook and loop fastener onto back of receiver. Remove protective film.
2. Press receiver onto inside of end cap with green wire toward conduit hole.
3. Wire as shown above.

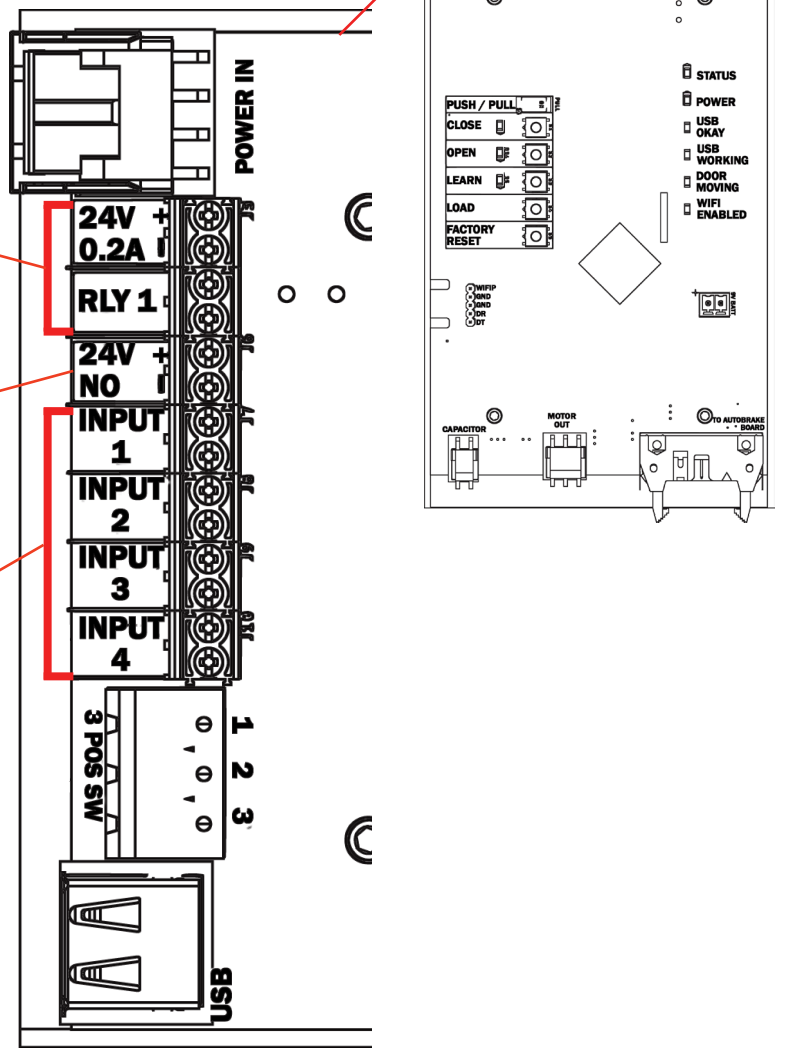


Single-Use Restroom Wiring Diagram Configuration Overview

This operator is capable of supporting many single-use restroom configurations through its powered outputs and user-configurable inputs.

Some examples of Single-Use Restroom configurations are available on pages 19, 20, and 21.

Below is a detailed description of each variable that can be used for these configurations.



24V & RLY 1:

24VDC powered (wet) output, supports locks and accessories up to 200mA. These outputs must be used to configure a restroom application with a fail-secure locking device.

- Sends power to connected devices after restroom switch activation.

24V NO:

24VDC powered output, supports locks and accessories up to 400mA.

- Sends power to connected devices after occupancy input activation.

Available Input functions:

- Occupancy Input (NO, momentary/pulse):
  - Disables inside and outside restroom switches.
- Restroom Outside Switch:
  - In unlocked state, activates operator.
  - Disabled by occupancy input; resets to unlocked state when door is opened.
- Restroom Inside Switch:
  - Activates operator.
  - Disabled by occupancy input, while occupancy input switch is closed.

Single-Use Restroom Wiring Diagram (cont.)
Example 1: 6200 Bathroom Kit

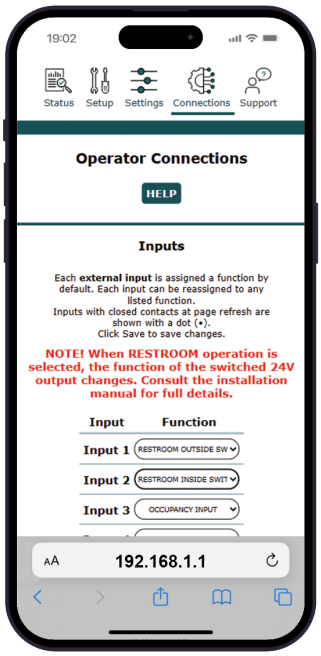
Hardware Components

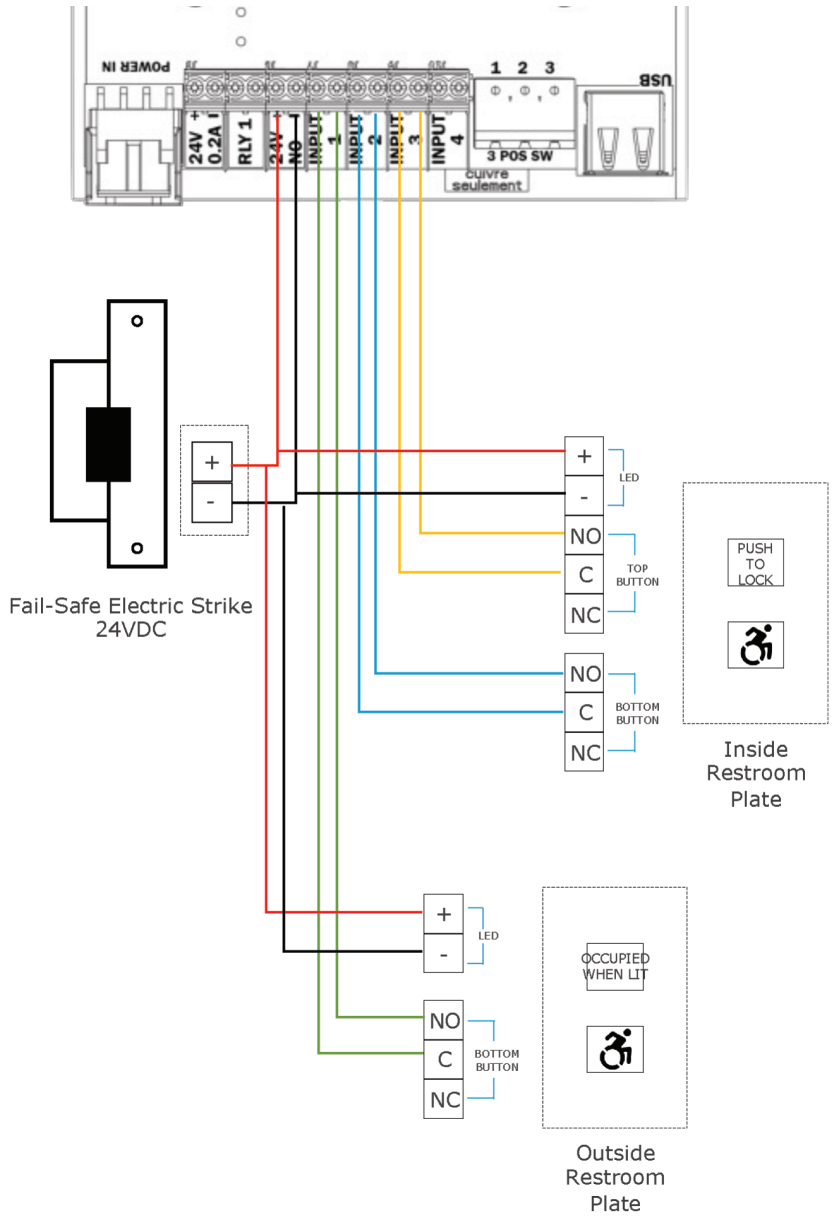
- One (1) Storeroom function lockset
- One (1) Fail-safe Electric strike
- One (1) 6200 Series Low Energy Operator
- One (1) Inside Restroom Plate*
- One (1) Outside Restroom Plate*

Description of Operation:

- Door normally closed and unlocked.
- Outside door switch activates operator.
- “Push to Lock” button on inside restroom plate locks electric strike, disables outside door switch, illuminates LEDs on inside and outside restroom plates.
- Inside door switch unlocks electric strike, activates operator, resets outside door switch, turns off LEDs.
- Exiting room via inside lever unlocks electric strike, re-enables outside door switch and LEDs.
- In case of power loss, door is unlocked. Operator is inactive.

Input Configuration:





*included with 6200 models with R1 or R2 suffix

Single-Use Restroom Wiring Diagram (cont.)
Example 2: Mortise Lock

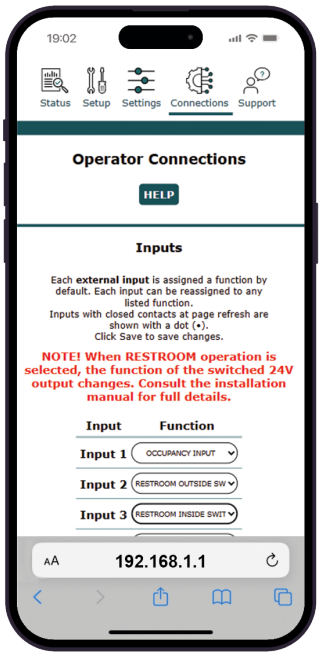
Hardware Components

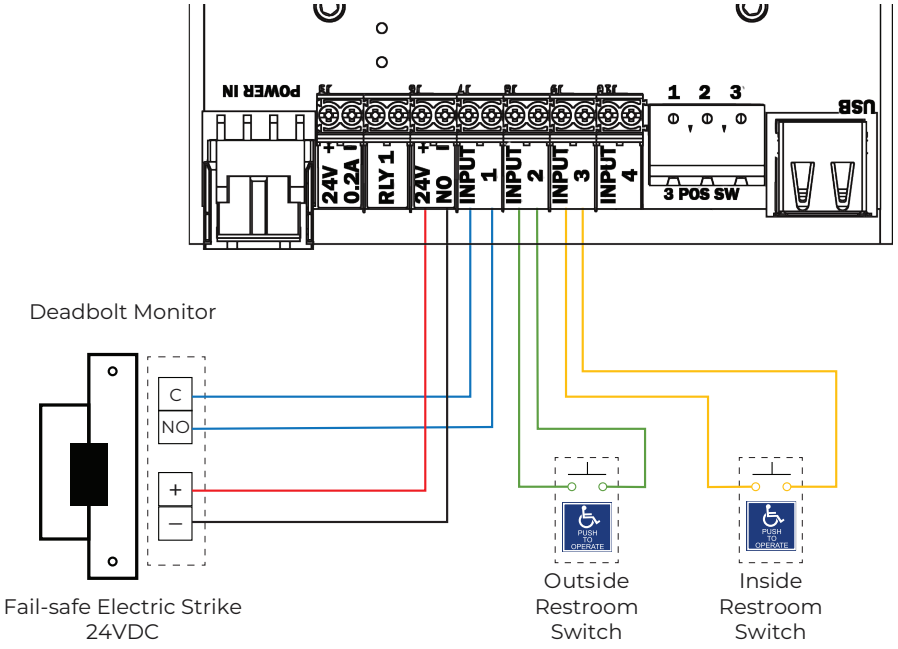
- One (1) Privacy function mortise lock w/ deadbolt and privacy indicator
- One (1) Electric strike w/ deadbolt monitor*
- One (1) 6200 Series Low Energy Operator
- Two (2) Activation switches

Description of Operation:

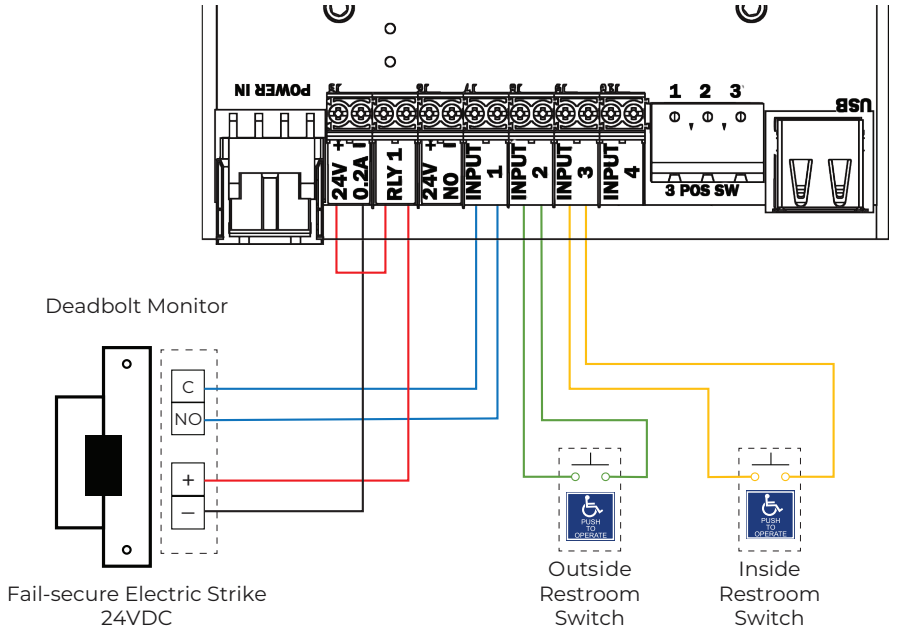
- Door normally closed and unlocked.
- Outside door switch activates operator.
- Projecting deadbolt disables inside and outside door switch, changes occupancy indicator status.
- Retracting deadbolt re-enables inside door switch.
- Exiting room re-enables outside door switch.

Input Configuration:





Fail-safe Configuration



***Fail-secure Configuration**

*Output to configure fail-secure electric strike for restroom function provides up to 200mA

Single-Use Restroom Wiring Diagram (cont.)
Example 3: Push/Pull

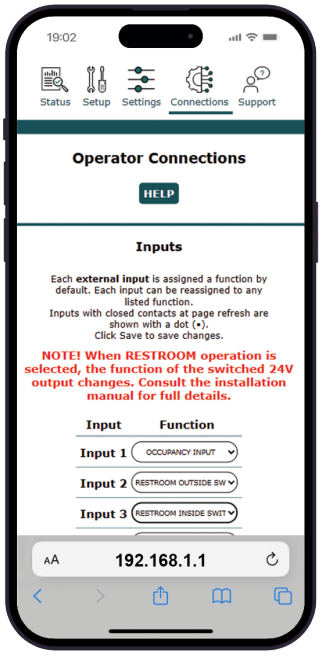
Hardware Components

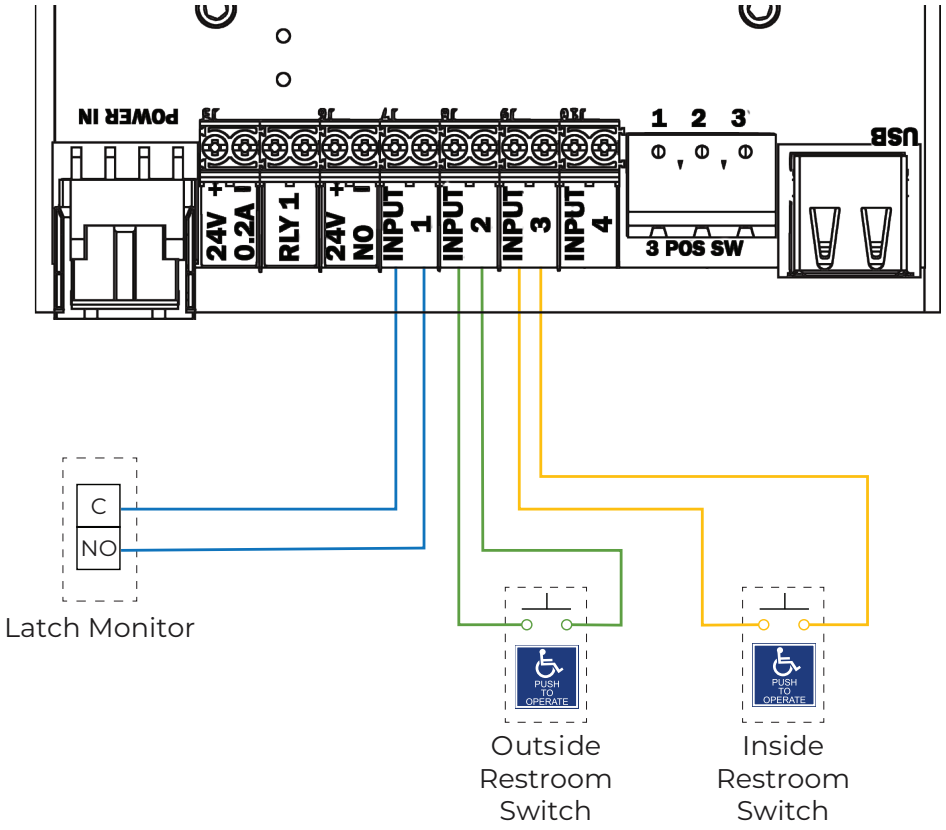
- One (1) Deadbolt w/ privacy indicator
- One (1) Latch Monitor
- One (1) Push/Pull set
- One (1) 6200 Series Low Energy Operator
- Two (2) Activation switches

Description of Operation:

- Door normally closed and unlocked.
- Outside door switch activates operator.
- Projecting deadbolt disables inside and outside door switch, changes occupancy indicator status.
- Retracting deadbolt re-enables inside door switch.
- Exiting room re-enables outside door switch.

Input Configuration:





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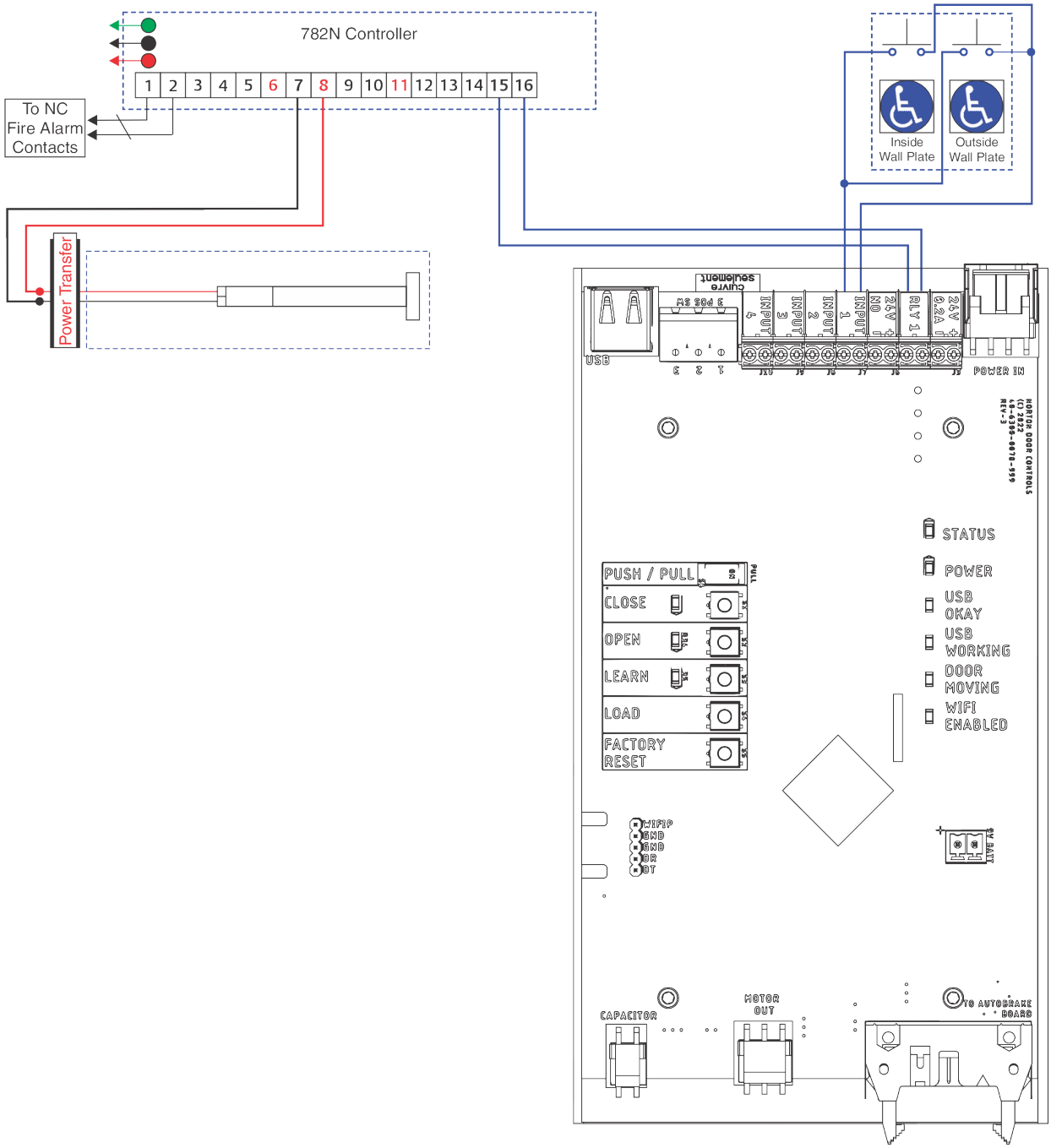
782 Controller x Solenoid Exit Device Wiring Diagram



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