

## WARNING AND CAUTIONS:

- **TO AVOID FIRE, SHOCK, OR DEATH: TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE INSTALLING!**
- **PROPER GROUNDING REQUIRED TO AVOID STATIC DISCHARGE WHICH CAN DAMAGE THIS DEVICE DURING INSTALLATION.**

## WARNING AND CAUTIONS:

- If you are unsure about any part of these instructions, consult an electrician; all work should be performed by qualified personnel.
- This device must be installed in accordance with national, state, and local electrical codes and requirements.

## INSTALLATION GUIDE

### SPECIFICATIONS

- Input Power: 1.5W
- Input Voltage: 120-277VAC, 60Hz
- Radio Frequency: 2.4 GHz (IEEE 802.15.4)
- RF Transmission Output Power: +20 dBm
- Operating Temperature: 0°C to +55°C
- Operating Humidity: 10 to 95%, non-condensing
- Dimensions: 4.17x1.75x1.37 in (106x45x35 mm) *without faceplate*
- Indoor Use Only

### INSTALLATION INSTRUCTIONS

1. Turn off power at the circuit breaker.
2. Note the "TOP" of the switch during installation. Button 1 is the topmost button and should be mounted in this orientation as seen in Figure 1.
3. If using a Ground wire, connect the Ground lead first by inserting into poke hole and tightening the Green screw. See Figure 2 and 3.
4. Connect White branch lead to the Neutral terminal. Insert wire to poke hole and tighten the silver screw.
5. Connect the Black line voltage branch lead to the Line terminal. Insert wire to poke hole and tighten the Black screw.
6. Use second poke hole to continue wiring to next device. **NOTE:** Line voltage lead must be from unswitched circuit.
7. Be sure all terminal screws are tightened before placing switch in electrical enclosure.
8. Carefully fold the wires into the electrical box.
9. Using the (2) screws provided, affix the switch to the electrical box as shown in Figure 4.
10. Complete the install by placing a decorative cover plate over the switch. Separate the mounting bracket from the cover plate. Attach the mounting bracket using the (2) screws provided. Snap on the decorative cover plate. Restore the power at the breaker panel and test.

**Note: For the best RF connectivity, install the switch in direct line of sight with one or more Synapse Lighting Controllers.**

For more information on SimplySnap and the SNV-SW-0x, refer to the website at <http://help.synapsewireless.com/>.

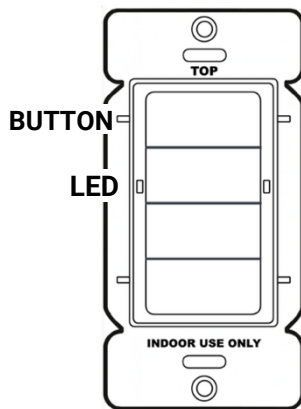


Figure 1 – Buttons and LED

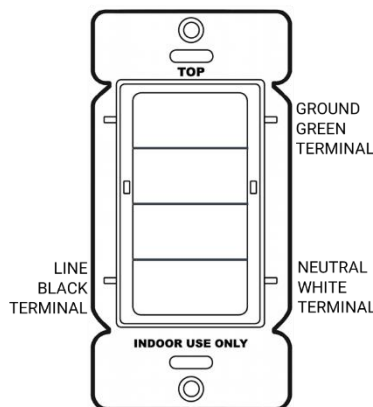


Figure 2 – Switch Wiring Diagram

Note that the wiring for the 2-Button Switch and the 4-Button Switch are the same

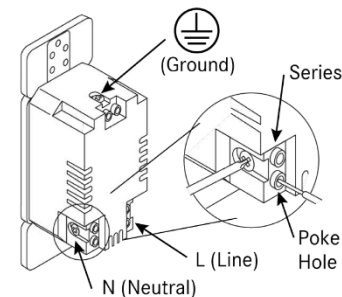


Figure 3 – Terminals

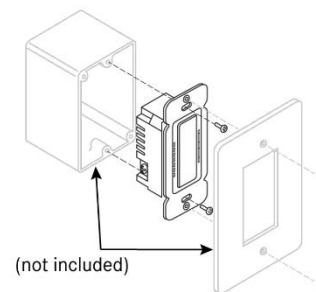


Figure 4 – Mounting

### STATUS LED

**Note: When the switch is powered, the following colors indicate the status.**

- **Blue** = Button Pressed
- **Off** = Normal activity
- **Blinking Blue** = No mesh communication

### BUTTON FUNCTION

- **Short Press** = ON/OFF or Cycle Scene
- **Long Press** = Dim Up/Dim Down (ramps up then down)

## REGULATORY INFORMATION AND CERTIFICATIONS

**RF Exposure Statement:** This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**Industry Canada (IC) certifications:** This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

### FCC certifications and regulatory information (USA only)

**FCC Part 15 Class B:** This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) These devices may not cause harmful interference, and (2) These devices must accept any interference received, including interference that may cause harmful operation.

**RADIO FREQUENCY INTERFERENCE (RFI) (FCC 15.105):** 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 user is encouraged to try to correct the interference by one or more of the following measures: (1) Re-orient or relocate the receiving antenna; (2) Increase the separation between the equipment and the receiver; (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected; (4) Consult the dealer or an experienced radio/TV technician for help.

### Declaration of Conformity (FCC 96-208 & 95-19):

Synapse Wireless, Inc. declares that the product name "SNV-SW-0x" to which this declaration relates, meet the requirements specified by the Federal Communications Commission as detailed in the following specifications:

- Part 15, Subpart B, for Class B equipment
- FCC 96-208 as it applies to Class B personal computers and peripherals
- This product has been tested at an External Test Laboratory certified per FCC rules and has been found to meet the FCC, Part 15, Emission Limits. Documentation is on file and available from Synapse Wireless, Inc.

If the FCC ID for the module inside this product enclosure is not visible when installed inside another device, then the outside of the device into which this product is installed must also display a label referring to the enclosed module FCC ID. Modifications (FCC 15.21): Changes or modifications to this equipment not expressly approved by Synapse Wireless, Inc., may void the user's authority to operate this equipment.

### CERTIFICATIONS

**Model** : SNV-SW-02, SNV-SW-04  
**Contains FCC ID** : QOQ-GM240P  
**Contains IC** : 5123A-GM240P

For more information on SimplySnap and the SNV-SW-0x, refer to the website at <http://help.synapsewireless.com/>.

Patented – virtual marking at <https://www.synapsewireless.com/about/patents>