

WARNING AND CAUTIONS:

- **TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING!**
- **Risk of Electric Shock** - More than one disconnect switch may be required to de-energize the equipment before servicing. Use this device with copper or copper clad wire only.
- To be installed and/or used in accordance with appropriate electrical codes and regulations.

WARNINGS AND CAUTIONS:

- **Wiring Connectors:** All existing wiring connectors must be replaced with new UL listed wiring connectors. All wiring connectors must be correctly sized for the application and the number and the size of the electrical conductors.
- Use this device with copper or copper clad wire only.
- If you are unsure about any part of these instructions, consult an electrician.

INSTALLATION GUIDE

DESCRIPTION

The Synapse family of **Wireless Switches** are a set of DC powered wireless switches that are compatible with SimplySNAP. The switches are available in 2 and 8 button configurations. The switches require a 12V to 24V DC power supply for operation. Part numbers WSW-02-PS and WSW-08-PS include the power supply.

PROVISIONING

For information about provisioning the Wireless Switches, please refer to the SimplySNAP User Guide.

PRODUCT NUMBERS

Order #	Description
WSW-02 (See Note 1)	Wireless two-button switch
WSW-02- PS (See Note 2)	Wireless two-button switch with 12V power supply
WSW-08 (See Note 1)	Wireless eight-button switch
WSW-08-PS (See Note 2)	Wireless eight-button switch with 12V power supply
GLP-PS-12V (See Note 2)	12V Power Supply

NOTE 1: The switches require DC power for operation. The WSW-02-PS and WSW-08-PS include an AC to DC power supply. If purchasing the WSW-02 or WSW-08, the customer must supply a power source that converts line voltage to a range of 12VDC to 24VDC (1.2W). This power can be provided by the DIM10-250-11 if used as a controller within the lighting solution.

NOTE 2: Power supply must be located in a separate electrical box to meet electrical code requirements.

SWITCH FEATURES

- 2 or 8 button configurations
- Switch mounts in standard single gang box
- Compatible with the SimplySNAP Lighting Control System

SWITCH SPECIFICATIONS

Input Power	:	1.2W
Input Voltage	:	+12V DC to +24V DC
Radio Frequency	:	2.4 GHz SNAP
Operating Temperature	:	-20 to 60 C
Operating Humidity	:	10 to 90% non-condensing
Dimensions	:	4.32" H x 1.63" W x 1.75" L

CAUTION

- This product must be installed in accordance with national, state, and local electrical codes and requirements
- All work must be performed by qualified personnel
- Disconnect all power before installation or service

NEEDED MATERIALS

FOR SWITCH ONLY (WSW-02, WSW-08): 1 - Gang device back box (1-1/2" deep minimum)

FOR SWITCH AND POWER SUPPLY (WSW-02-PS, WSW-08-PS): 2-Gang Dual-Voltage Box (1-1/2" deep minimum)

Wiring Connectors: All existing wiring connectors should be replaced with new UL listed wiring connectors. All wiring connectors should be correctly sized for the application and the number and the size of the electrical conductors.

INSTALLATION INSTRUCTIONS

WARNING: TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND VERIFY THAT POWER IS OFF BEFORE WIRING!

1. Connect the wireless switch to the +12V to +24V DC power source.
2. Using the included wire nuts, connect the switch and power supply as indicated in Figure 1.
3. Securely mount the switch inside the intended single-gang box.
4. Mount the power supply (if used) in a separate single-gang box. (A 2-gang dual-voltage box is recommended.)
5. Mount the wall plate to the wireless switch.

OPERATION

1. Once installation is complete and power is applied, BUT before the switch is provisioned as part of a SimplySNAP system, the STATUS LED will blink blue.

2. Once the switch is commissioned as part of a SimplySNAP system, the STATUS LED will remain solid blue.
3. If the wireless switch loses communication with the SimplySNAP site controller, the switch will blink red.
4. All of the LEDs included as part of the wireless switch can be dimmed by simultaneously pressing any two buttons on the switch. Simultaneously press any two buttons again to return the LEDs to full bright.

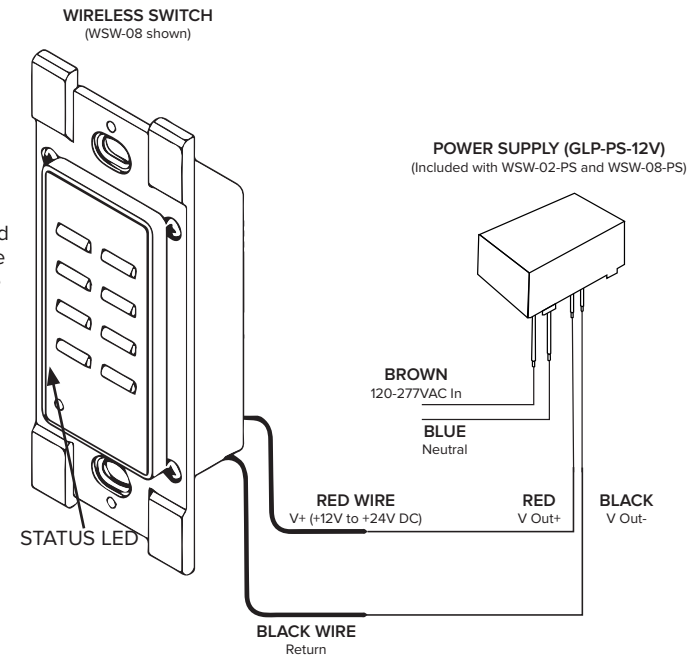


Figure 1 - Wiring the Wireless Switch

CERTIFICATIONS

Contains FCC ID : U9O-SM220
Contains IC : 7084A-SM220

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.

REGULATORY INFORMATION

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 present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicable aux appareils numeriques de la class B prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere 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 "SM220" 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