Supported Models and Requirements

- C4-SW1-Z: Wireless Switch (802.15.4), White

Specifications and Supported Fixtures

This Control4® Wireless Switch operates independently or as part of a Control4® home automation system to enable intelligent lighting control. It installs in a standard wall box using typical wiring standards and communicates with other devices through a wireless RF (radio frequency) connection. The specifications and supported fixtures are described next.

Power:
120 VAC ±10% 50/60 Hz
300 mA max
400 mW max

Supported Load Types and Ratings:
120 VAC 100W Resistive
120 VAC 250V Resistive
120 VAC 12V Low Voltage
120 VAC 12V Magnetic Low Voltage

Operating Temperature:
All listed models are rated for ambient temperatures of 25 degrees Celsius.

Volume:
3.6 Cubic inches

Communications:
Zigbee, IEEE 802.15.4, 2.4 GHz, 15-channel, spread spectrum radio

Warnings and Considerations

WARNING! Install in accordance with all national and local electrical codes.

WARNING! Improper use or installation can cause SERIOUS INJURY, DEATH or LOSS/DAMAGE OF PROPERTY.

WARNING! If you are unsure about any part of these instructions, consult a qualified electrician.

WARNING! Use this device only with copper or copper clad wire. This product has NOT been approved for use with aluminum wire.

IMPORTANT! Using this product in a manner other than outlined in this document can void the warranty. Further, Control4 is NOT liable for any damage incurred with the misuse of this product. See ’Limited 2-Year Warranty’. See the Limited 2-Year Warranties

IMPORTANT! The range and performance of the wireless control system is highly dependent on the following: (1) distance between devices; (2) layout of the home; (3) walls separating devices, and (4) electrical equipment located near devices.

Installation Instructions

1. TURN OFF POWER by switching off the circuit breaker or removing the fuse and wait 5 minutes before wiring.
2. Identify your wiring application (refer to the appropriate diagram on the next page).
   - Single-Pole (with power source at wall box) – see Figure 1
   - 3-Way (with power source at wall box) – see Figure 2
3. Prepare the wires by removing pre-cut insulation from the appropriate switch leads. Wire insulation should be stripped back 5/8 of an inch from the wire end (as shown).
4. Connect the Switch wires to the wall box wires using wire nuts according to the relevant wiring diagram.
5. Mount the Switch into the wall box by partially securing the wall box screws attached to the Switch. Ensure that the word “Top” on the Switch frame is facing up. Bend the wires in a zigzag pattern so that they easily fold into the wall box.

WARNING! Ground the Wireless Switch in accordance with the National Electric Code (NEC) requirements. Although the switch’s aluminum yoke plate and green ground wire are directly bonded together inside the Switch, DO NOT rely solely upon the yoke plate’s contact with a metal wall box for adequate grounding. Use the Switch’s yellow wire to make a secure connection to the safety ground of the electrical system.

IMPORTANT! Not grounding this product according to the preceding may result in an installation less immune to damage caused by electrical surges, such as lightning, and void the warranty.

6. If you are using the Control4 push-on (screw-less) wall plate that shipped with your switch:
   a. For a single-gang scenario, attach the black plastic sub-plate using the provided sub-plate screws.
   b. If you are installing in a multi-gang scenario, only partially tighten the mounting screws, leaving about 1/8 of an inch gap between the wall and the yoke plates prior to attaching the black plastic sub-plate. This allows each device in a multi-gang scenario to conform to the sub-plate, creating a single assembly. Secure the multi-gang sub-plate to all devices using the provided sub-plate screws. Then secure the assembly by tightening the wall box screws the remaining 1/8 of an inch. Do not over-tighten any of the screws or you may mis-align the flat plane of the multi-gang wall plate.
   c. With the wall plate’s removal slot facing down, push the wall plate onto the switch’s black plastic sub-plate.
   d. If you are using Decora-style, screw-on the wall plate:
      a. Do not attach the Switch’s black plastic sub-plate.
      b. Align the switch to the wall box and fasten it with screws.
      c. Fasten the wall plate to the Switch with screws.
   e. Turn ON power at the circuit breaker or replace the fuse from the fuse box.
7. Test the Switch to see if it’s working properly. See “Operation and Configuration” for specific instructions.

Sample Wiring Configurations

Single-Locaiton Scenario—Power Source at Wall Box

Note: This device will not function without a neutral AC connection.

To wire the Switch to a Control4 single-location scenario in which the power is first routed to the wall box, connect together and cap with a wire nut the wires indicated in the following table and figure:

<table>
<thead>
<tr>
<th>Switch Wires</th>
<th>From Power Source</th>
<th>To Light Fixture</th>
<th>To Wall Box 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>White (neutral)</td>
<td>White (neutral)</td>
<td>White (neutral)</td>
<td>White (neutral)</td>
</tr>
<tr>
<td>Red (load)</td>
<td>Black (hot)</td>
<td>Black (hot)</td>
<td>Black (hot)</td>
</tr>
<tr>
<td>Green (ground)</td>
<td>Green (ground)</td>
<td>Green (ground)</td>
<td>Green (ground)</td>
</tr>
</tbody>
</table>

To wire the Switch and a multi-button keypad in a two-location scenario (Control4’s 3-way Switch solution) where the power is first routed to the wall box, do the following:
1. Wire the Switch into Wall Box #1 by connecting and capping the wires with a wire nut as indicated in the following table and figure:

<table>
<thead>
<tr>
<th>Switch Wires</th>
<th>From Power Source</th>
<th>To Light Fixture</th>
<th>To Wall Box 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>White (neutral)</td>
<td>White (neutral)</td>
<td>White (neutral)</td>
<td>White (neutral)</td>
</tr>
<tr>
<td>Red (load)</td>
<td>Black (hot)</td>
<td>Black (hot)</td>
<td>Black (hot)</td>
</tr>
<tr>
<td>Green (ground)</td>
<td>Green (ground)</td>
<td>Green (ground)</td>
<td>Green (ground)</td>
</tr>
</tbody>
</table>

2. Wire the multi-button keypad into Wall Box #2 by connecting together and capping the wires with a wire nut as indicated in the following table:

Operation and Configuration

On initial power up, the unit will flash the Red/Green/Blue (RGB) LEDs which can be programmed with different colors for different states or color preferences. To set this Switch for use with a Control4 system, refer to your Composer Pro User Guide.

To operate this Switch as a stand-alone device, refer to the following table:

<table>
<thead>
<tr>
<th>Switch Wires</th>
<th>From Power Source</th>
<th>To Light Fixture</th>
<th>To Wall Box 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>White (neutral)</td>
<td>White (neutral)</td>
<td>White (neutral)</td>
<td>White (neutral)</td>
</tr>
<tr>
<td>Red (load)</td>
<td>Black (hot)</td>
<td>Black (hot)</td>
<td>Black (hot)</td>
</tr>
<tr>
<td>Green (ground)</td>
<td>Green (ground)</td>
<td>Green (ground)</td>
<td>Green (ground)</td>
</tr>
</tbody>
</table>

Troubleshooting

If light does not turn on:
- Ensure at least one LED is lit.
- Ensure the light bulb is not burnt out and is screwed in tightly.
- Ensure that the circuit breaker is not turned OFF or tripped.
- Check for proper wiring (see “Sample Wiring Configurations”).
- For help on the installation or operation of this product, email or call the Control4 Technical Support Center. Please provide your exact model number. Contact support@control4.com or see the web site www.control4.com.

Care and Cleaning

Do NOT paint switch or its wall plate.
Do NOT use any chemical cleaners with the switch.
Clean surface with a soft damp cloth as needed.

Notes:

- C4-SW1-Z: Wireless Switch (802.15.4), White
- None
- If you are using Decora-style, screw-on the wall plate:
  a. Do not attach the Switch’s black plastic sub-plate.
  b. Align the switch to the wall box and fasten it with screws.
  c. Fasten the wall plate to the Switch with screws.
  d. Turn ON power at the electric breaker or replace the fuse from the fuse box.
  e. Test the Switch to see if it’s working properly. See “Operation and Configuration” for specific instructions.

- Figure 1. Wiring: Power Source at Wall Box
- Figure 2. Wiring: Two-Location Scenario

- Note
- To wire the Switch and a multi-button keypad in a two-location scenario (Control4’s 3-way Switch solution) where the power is first routed to the wall box, do the following:
  1. Wire the Switch into Wall Box #1 by connecting and capping the wires with a wire nut as indicated in the following table and figure:
  2. Wire the multi-button keypad into Wall Box #2 by connecting together and capping the wires with a wire nut as indicated in the following table:

- To wire the Switch and a multi-button keypad in a two-location scenario (Control4’s 3-way Switch solution) where the power is first routed to the wall box, do the following:
  1. Wire the Switch into Wall Box #1 by connecting and capping the wires with a wire nut as indicated in the following table and figure:
  2. Wire the multi-button keypad into Wall Box #2 by connecting together and capping the wires with a wire nut as indicated in the following table:
Wireless Installation Guide

Supported Models and Requirements
- C4-SW1-Z Wireless Switch (802.15.4), White

Specifications and Supported Fixtures

This Control4® Wireless Switch operates independently or as part of a Control4® home automation system to enable intelligent lighting control. It installs in a standard wall box using typical wiring standards and communicates with other devices through a wireless RF (radio frequency) connection. The specifications and supported fixtures are described next.

**Power:**
- 120/240 VAC ±10% 50/60 Hz
- 300 mA (idle) / 0.1 A (max)

**Supported Load Types and Ratings:**
- 120/240 VAC 1000W Magnetic Low Voltage
- 120/240 VAC 1000W Electronic Low Voltage
- 120/240 VAC 1000W Resistive

**Operating Temperature:**
- 14°F to 113°F (-10°C to 45°C)

**Volume:**
- 2.6 Cubic inches

**Communications:**
- ZigBee, IEEE 802.15.4, 2.4 GHz, 15-channel, spread spectrum radio

**Installation Instructions**

1. **TURNOFF POWER** by switching off the circuit breaker or removing the fuse and let power be off before wiring!

2. Identify your wiring application (refer to the appropriate diagram on the next page):
   - **Single-Pole** (with power source at wall box): see Figure 1
   - **3-Way** (with power source at wall box): see Figure 2

3. Prepare the wires by removing pre-cut insulation from the appropriate switch leads. Wire insulation should be stripped back 5/8" an inch from the wire end (as shown).

4. Connect the Switch wires to the wall box wires using wire nuts according to the relevant wiring diagram.

5. Mount the Switch into the wall box by partially securing the wall box screws attached to the Switch. Ensure that the word “Top” on the Switch frame is facing up. Bend the wires in a zigzag pattern so that they easily fold into the wall box.

   **WARNING!** Ground the Wireless Switch in accordance with the National Electrical Code (NEC) requirements. Although the Switch’s aluminum yoke plate and ground green wire are directly bonded together inside the Switch, DO NOT rely solely upon the yoke plate’s contact with a metal wall box for adequate grounding. Use the Switch’s ground wire to make a secure connection to the safety ground of the electrical system.

   **IMPORTANT!** Not grounding this product according to the preceding may result in an installation that is immune to damage caused by electrical disturbances, such as lightning, and void the warranty.

6. If you are using the Control4® push-on (screw-less) wall plate that shipped with your Switch:
   a. For a single-gang scenario, attach the black plastic sub-plate using the provided sub-plate screws.
   b. Important! Tighten the screws until the back side of the metal yoke plate is even with the wall surface, but no further. Over-tightening can damage the Switch and cause mechanical malfunction. Do NOT use a power screw driver to install this device as this may lead to over-tightening.
   c. If you are installing in a multi-gang scenario, only partially tighten the mounting screws, leaving about 1/8" of an inch gap between the wall and the yoke plate prior to attaching the black plastic sub-plate. This allows each device in a multi-gang scenario to conform to the sub-plate, creating a single assembly. Secure the multi-gang sub-plate to all devices using the provided sub-plate screws. Then secure the assembly by tightening the wall box screws the remaining 1/8" of an inch. Do not over-tighten any of the screws or you will mis-align the flat plane of the multi-gang wall plate.
   d. With the wall plate’s removal slot facing down, push the wall plate onto the switch’s black plastic sub-plate.
   e. If you are using Decor-style, screw-on the wall plate:
      a. Do not attach the Switch’s black plastic sub-plate.
      b. Align the switch to the wall box and fasten with 4 screws.
      c. Fasten the wall plate to the Switch with screws.
      d. Turn ON power at the circuit breaker or replace the fuse from the fuse box.

7. Test the Switch to see if it’s working properly. See “Operation and Configuration” for specific instructions.

Sample Wiring Configurations

**Single-Location Scenario—Power Source at Wall Box**

- **To operate this Switch as a stand-alone device**, refer to the following table:

**Two-Location Scenario—Power Source at Wall Box**

- **To wire the Switch for a Control4® single-location scenario in which the power is first routed to the wall box**, connect together and cap with a wire nut the wires indicated in the following table and figure.

**Operation and Configuration**

On initial power up, the unit will flash the Red/Green/Blue (RGB) LEDs, which can be configured with different colors for different states or color preferences. To set this Switch for use with a Control4 system, refer to your Composer Pro User Guide.

Sample Wiring Configurations

**Single-Location Scenario—Power Source at Wall Box**

**Note:** This device will not function without a neutral AC connection.

To wire the Switch for a Control4® single-location scenario in which the power is first routed to the wall box, connect together and cap with a wire nut the wires indicated in the following table and figure.

**Two-Location Scenario—Power Source at Wall Box**

**Note:** This device will not function without a neutral AC connection.

To wire the Switch and a multi-button keypad in a two-location scenario (Control4®’s 3-way Switch solution) where the power is first routed to the wall box, do the following:

1. **Wine the Switch into Wall Box #1 by connecting and capping the wires with a wire nut as indicated in the following table and figure.**

2. **Wine the multi-button keypad into Wall Box #2 by connecting together and capping the wires with a wire nut as indicated in the following table.**

Care and Cleaning

- Do NOT paint switch or its wall plate.
- Do NOT use any chemical cleaners to clean the switch.
- Clean surface with a soft damp cloth as needed.

Troubleshooting

If light does not turn on:
- Ensure at least one LED is lit.
- Ensure the light bulb is not burned out and is screwed in tightly.
- Ensure that the circuit breaker is not turned OFF or tripped.
- Check for proper wiring (see “Sample Wiring Configurations”).
- For help on the installation or operation of this product, email or call the Control4 Technical Support Center. Please provide your exact model number. Contact support@control4.com or see the web site www.control4.com.