Control4

Lux Switch Installation Guide

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LATEST VERSION OF THIS GUIDE	CONTROL4 LUX QUICK START	CONTROL4 LUX WIRING GUIDE
ctrl4.co/lux-sw-ig	ctrl4.co/lux-qs	ctrl4.co/lux-wiring

Supported model

- C4-L-SW Control4 Lux Switch

Introduction

The Control4® Lux Switch operates independently or as part of a Control4 home automation system. It installs in a standard back box using typical wiring standards and communicates to the Control4 system using a wireless connection.r

Box contents

- Control4 Lux Switch
- Warranty card
- Temporary button(s)
- *Control4 Lux Switch Installation Guide* (this document)

Mounting plate required for install

The Control4 Lux Switch **requires** a faceplate and mounting plate designed to fit your install (1 gang, 2 gang, etc) and are required before you install the switch. Part numbers for faceplates and mounting plates:

- Lux Faceplate and Mounting Plate, 1 gang (C4-L-FP1-XX)
- Lux Faceplate and Mounting Plate, 2 gang (C4-L-FP2-XX)
- Lux Faceplate and Mounting Plate, 3 gang (C4-L-FP3-XX)
- Lux Faceplate and Mounting Plate, 4 gang (C4-L-FP4-XX)

Specifications and supported load types

Model number	C4-L-SW	
Power requirements	120–240V AC ±10%, 50/60 Hz	
Neutral required?	Yes	
Power consumption	120V: 0.67W All LEDs Off, 0.83W all LEDs On 240V; 1.30W All LEDs Off, 1.51W all LEDs On	
Load types and ratings		
Supported load types	Incandescent, halogen, electronic (solid state) low voltage (ELV) transformers, magnetic (iron core, inductive) low voltage (MLV) transformers, LEDs, motors	
Maximum load	Incandescent/LED	Motor
120V	15A	1/2 HP
240V	10A	1/2 HP
Environmental		
Operational temperature	0 to 40 ˚C (32 to 104 ˚F)	
Humidity	5% to 95% non-condensing	
Storage	–20 to 70 ˚C (–4 to 158 ˚F)	
Miscellaneous		
Control communications	Zigbee, IEEE 802.15.4, 2.4 GHz, 15-channel spread spectrum radio	
Lighting scenes per device	127 maximum	
Actions per device	15 maximum per lighting scene	
Wallbox volume	5.75 in³ (94 cc)	
Weight	0.05 kg (0.12 lb.)	
Shipping weight	0.08 kg (0.18 lb.)	
Compatible color kit	C4-L-CKUDIMSWITCH-XX	

Warnings and considerations

WARNING! Turn OFF electrical power before installing or servicing this product. Improper use or installation can cause SERIOUS INJURY, DEATH or LOSS/ DAMAGE OF PROPERTY.
ATTENTION! Coupez l'alimentation électrique avant d'installer ou de réparer ce produit. Une mauvaise installation ou utilisation peut entraîner des blessures graves, décès ou perte / dommages à la propriété.

WARNING! This device must be protected by a circuit breaker (20A max).
ATTENTION! Cet appareil doit être protégé par un disjoncteur (20A max.)
WARNING! Ground this device in accordance with the National Electric Code (NEC) requirements. DO NOT rely solely upon the mounting plate's contact with a metal back box for adequate grounding. Use the mounting plate's ground wire to make a secure connection to the safety ground of the electrical system.
ATTENTION! Cet appareil doit être en conformité avec le Code national de l'électricité (NEC). Ne comptez pas uniquement au contact de la plaque avant avec un boîtier mural métallique pour la mise à la terre adéquate. Utilisez cet appareil à la terre de l'appareil pour établir une connexion sécurisée au système électrique.

IMPORTANT! This device must be installed by a licensed electrician in accordance with all national and local electrical codes.

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

IMPORTANT! Use this device only with copper or copper-clad wire. Do not use aluminum wiring. This product has not been approved for use with aluminum wiring.

IMPORTANT! Using this product in a manner other than outlined in this document voids your warranty. Further, Snap One is NOT liable for any damage incurred with the misuse of this product. See "Troubleshooting."

IMPORTANT! Do NOT use a power screwdriver to install this device. If you do, you may overtighten the screws and strip them. Also, overtightening the screws may interfere with proper button operation.

IMPORTANT! This is an electronic device with intricate components. Handle and install with care!

IMPORTANT! When used in conjunction with an Auxiliary Keypad (C4-L-KA), the wire connecting the Auxiliary Keypad to the switch must not exceed 45 m (150 ft.) at 120V AC, and 30 m (100 ft.) at 240V AC.

Installation instructions

1. Ensure that the location and intended use meet the following criteria:
   - Do not exceed the load capacity requirements of the switch. Refer to the load ratings in the specifications above for details.
   - 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.
2. Turn off the local electrical power by either switching off the circuit breaker or removing the fuse from the fuse box. To ensure the wires do NOT have power running to them, use an inductive voltage detector.
3. Prepare each wire. Wire insulation should be stripped back 1/2 of an inch from the wire end. You can use the strip gauge on the back of the switch to check the proper distance.
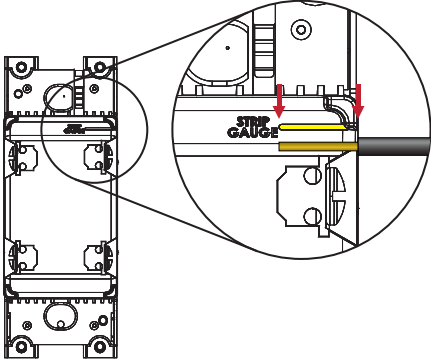

4. Identify your wiring application, and then see the appropriate wiring diagram in the "Sample Wiring Configurations" section below.

   IMPORTANT! Grounding this device is required as described in the section *Warnings and Considerations*. DO NOT rely solely upon the mounting plate's contact with a metal wall box for adequate grounding.

5. Using a manual screwdriver, install the mounting plate to the wall box. Do not overtighten the screws. Pull the wires through the mounting plate .
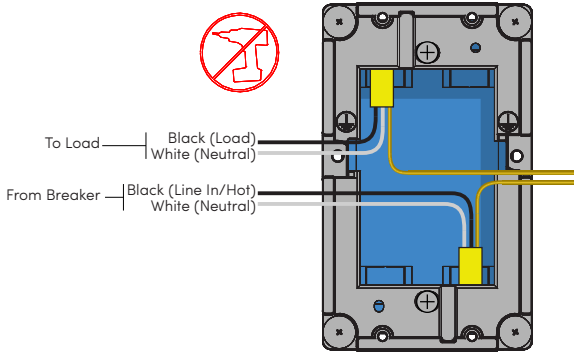

6. Connect the supplied ground wire lead to the ground wire in the wall box. Then, using the supplied hardware, fasten the ground wire lead to whichever side of the mounting plate that leaves the most space for the lighting device.
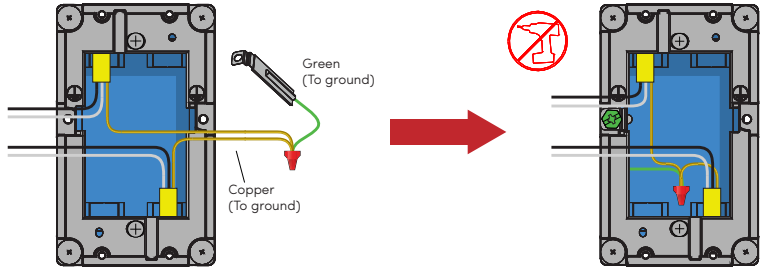

7. Identify and connect the wires to the back of the switch. Insert the wire into the terminal and secure it by hand-tightening the terminal screw to 15 in-lb (1.7 Nm) of torque.

   NOTE: You must use the same size and type of wire in each terminal for proper connection.
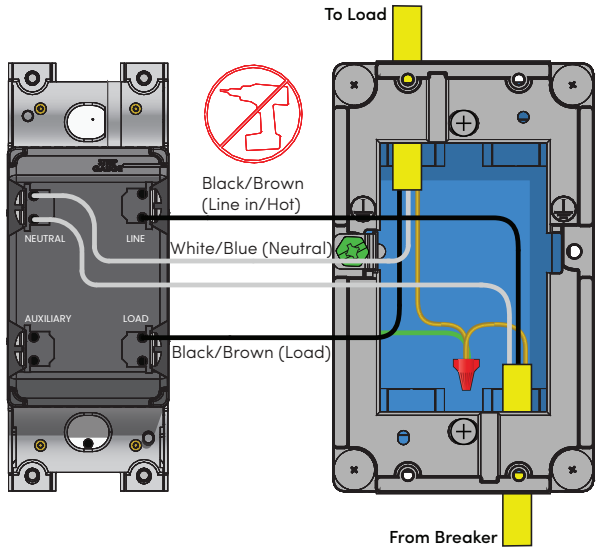

   IMPORTANT! The AUXILIARY connection is not used for a traditional traveler. It cannot directly power a lighting load. It must be used only to connect to a Control4 Auxiliary Keypad. See "*Sample Wiring Configurations*."

TIP: When installing this device in a multi-gang scenario, the Lux multi-gang faceplate kits come with jumpers to easily connect multiple devices.
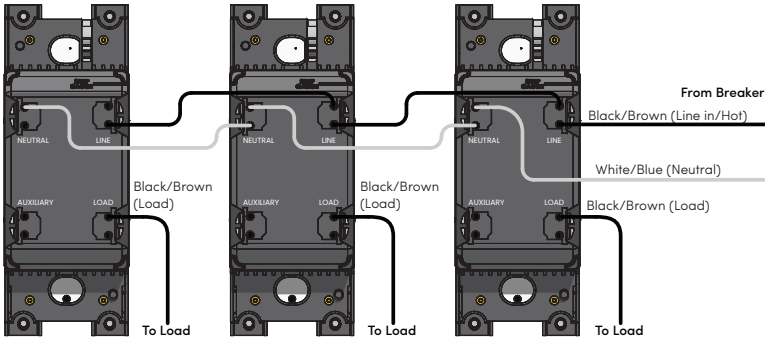

8. Fit the wires back into the back box. Bend the wires in a zigzag pattern so that they easily fold into the wall box.
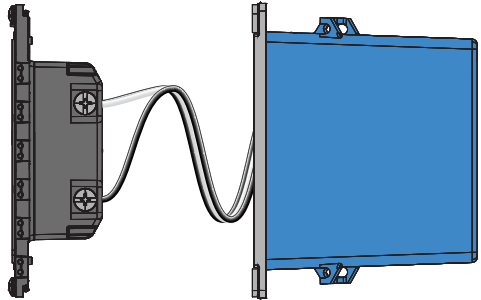

   Caution: Install buttons after device is installed in the wall box. Pushing the device into the wall box with buttons installed may damage the device.

9. Insert the device into the mounting plate and fasten it with screws. Overtightening can warp the device, causing mechanical malfunction and difficulty mounting the buttons and faceplate.
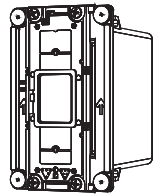
10. Install the temporary rocker onto the device. The back of the rocker has two arrows to indicate which end goes up. Line up the button's tabs to the device's pegs. Hold one side of the rocker in place over the device and snap the other side into place.
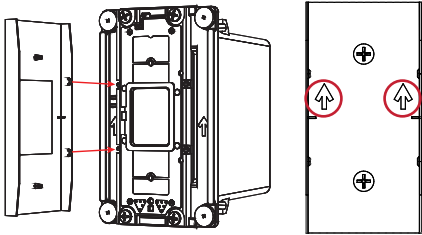
    TIP: This device ships with a temporary rocker button on the device for basic operation until finished, engraved buttons can be ordered. Blank, unengraved buttons are also available. To replace the temporary rocker with the engraved rocker, see the *Control4 Lux Button Installation Guide* (**ctrl4.co/lux-butn-ig**)

11. Install the Control4 Faceplate following the instructions in the *Control4 Lux Faceplate Installation Guide* (ctrl4.co/lux-fp-ig).
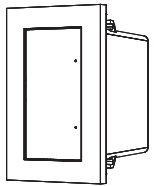
12. Turn on power at the circuit breaker or replace the fuse from the fuse box.

Operation and configuration

On initial power up, all status LEDs on the switch will illuminate green indicating that the device has power. To set up this switch for use with a Control4 system, refer to the *Composer Pro User Guide*.

To operate this switch as a stand-alone device if it is not programmed into a Control4 system:
- Click the top button to turn the light on.
- Click the bottom button to turn the light off.

Button tap sequences

The button tap sequences are defined in the table below. Button tap sequences that require a single button use the **top** button. For example, the factory reset sequence is **9 taps** on the **top**, then **4** on the **bottom**, and then **9** on the **top**.

Function	Button Sequence
Identify	4
Zigbee channel	7-4-7
Reboot	15
Factory reset	9-4-9
Leave mesh and reset	13-4-13

Troubleshooting

If the light does not turn on:
- Ensure at least one LED on the face of the switch 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").

LED status information

✳ —*Flashing LED*   ⬤ —*Solid LED*

Fault status

✳	× 2	Manufacturing ID fault
✳	× 3	Over current fault
✳	× 4	Line voltage fault
✳	× 5	Zero cross fault
✳	× 6	Temperature fault
✳	× 8	Bootup power/wiring fault
✳	× 1	Incorrect product fault
✳	× 3	Self-test fault

Zigbee status

●	**Not identified**
✳	**Identifying**
⬤	**Found Zigbee mesh**
●	**Did not find Zigbee mesh**
●	**Joined Zigbee mesh**

Care and cleaning

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

Warranty and legal information

Find details of the product's Limited Warranty at snapone.com/legal or request a paper copy from Customer Service at 866.424.4489.

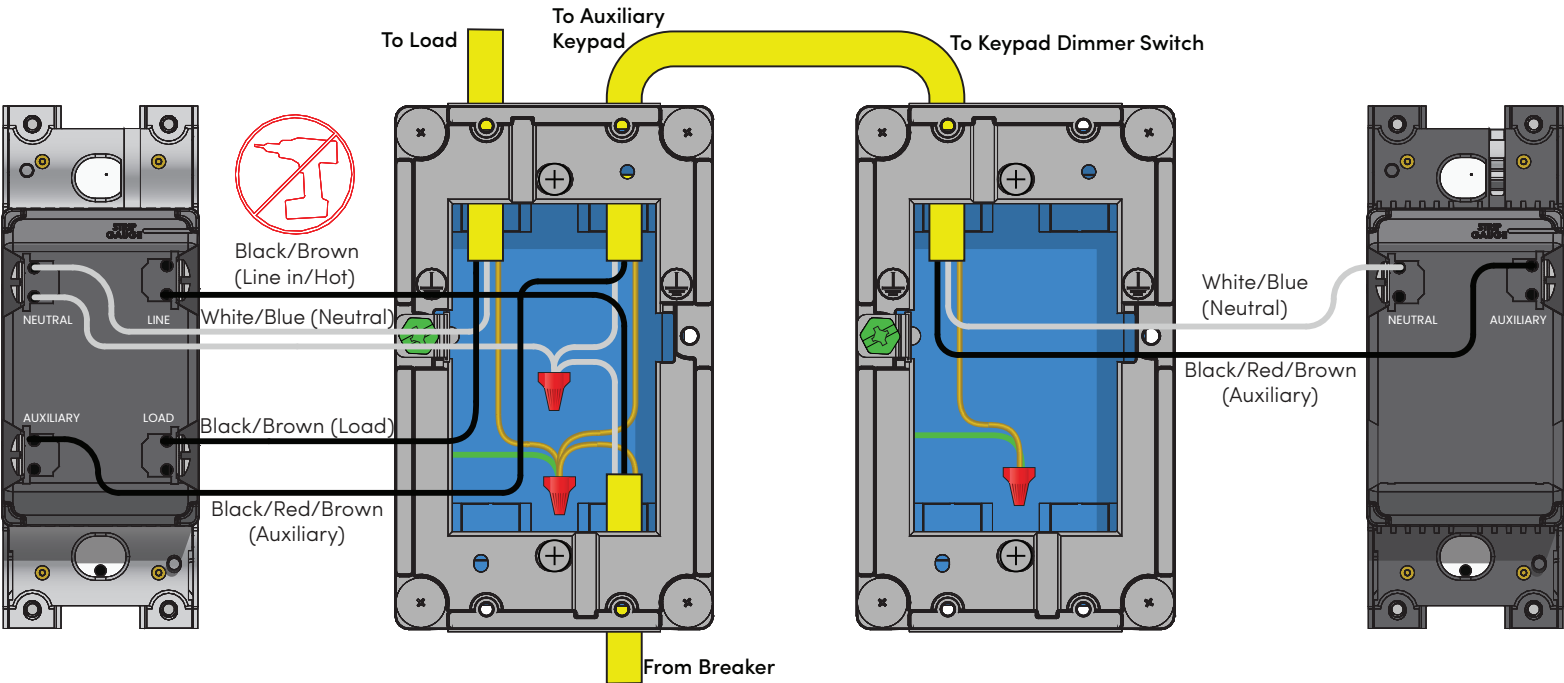Find other legal resources, such as regulatory notices and patent information, at snapone.com/legal.

Sample wiring configurations

Single device location

To Load

🚫

Black/Brown (Line in/Hot)

White/Blue (Neutral)

Black/Brown (Load)

From Breaker
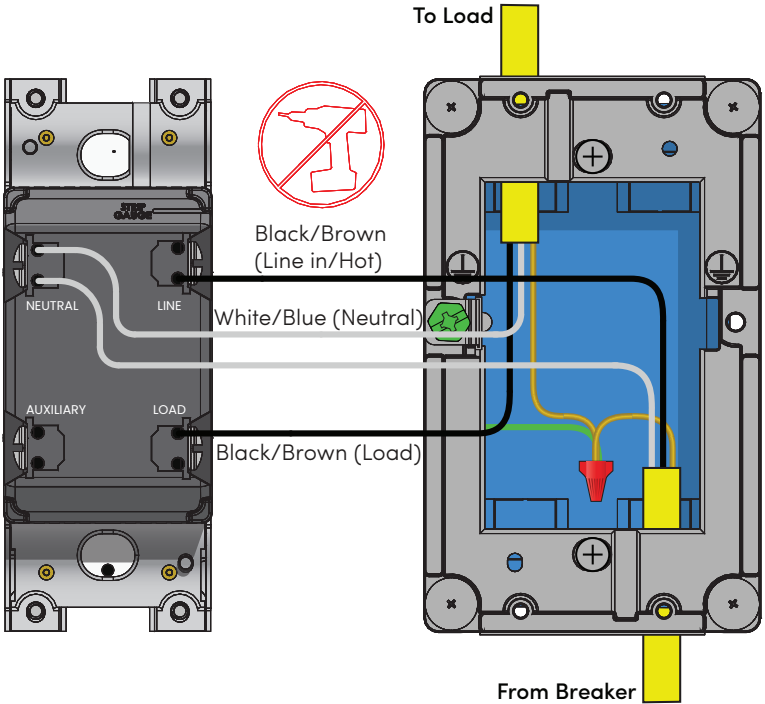
Multiple device location using Auxiliary Keypad

If you have a traveler wire to another wall box, you can install an auxiliary keypad to control the Lux Switch.

To Load   To Auxiliary Keypad   To Keypad Dimmer Switch

Black/Brown (Line in/Hot)

White/Blue (Neutral)

Black/Brown (Load)

Black/Red/Brown (Auxiliary)

White/Blue (Neutral)

Black/Red/Brown (Auxiliary)

From Breaker

✓ **IMPORTANT!** When used in conjunction with an Auxiliary Keypad (C4-L-KA), the wire connecting the Auxiliary Keypad to the switch must not exceed 45 m (150 ft.) at 120V AC, and 30 m (100 ft.) at 240V AC.

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