

Control4 Lux Dual Dimmer Switch

Installation Guide

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CONTROL4 LUX WIRING GUIDE



ctrl4.co/lux-wiring

Supported model

- C4-L-CDSW Control4 Lux Dual Dimmer Switch

Introduction

The Control4® Lux Dual Dimmer Switch is a device that provides control of two loads, one dimmable load and one switched load. The Dual Dimmer Switch operates independently or as part of a Control4 home automation system. It installs in a standard wall box using typical wiring standards and communicates to the Control4 system using a wireless connection.

Box contents

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

Mounting plate required for install

The Control4 Lux Dual Dimmer Switch **requires** a faceplate and mounting plate designed to fit your install (1 gang, 2 gang, etc) and are required before you install the dual dimmer 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-CDSW				
Power requirements	120 or 240V AC ±10%, 50/60 Hz				
Neutral required	Load 1 (dimmer): No, when dimming load is used. Load 2 (switch): Yes, if only using switched load.				
Power consumption	120V: 1.90W all LEDs Off, 2.64W all LEDs On 240V: 4.20W all LEDs Off, 4.93W all LEDs On				
Load types and ratings					
Supported load types	Dimming: Incandescent, halogen, electronic (solid state) low voltage (ELV) transformers, magnetic (iron core, inductive) low voltage (MLV) transformers*, LEDs Switch mode: above load types plus fluorescents and motors				
Maximum load1 (dimmer)	Incandescent	LED	MLV	Fluorescent	Motor
120V	150W	80W	-	-	-
240V	240W	80W	-	-	-
Maximum load2 (switch)	Incandescent	LED	MLV	Fluorescent	Motor
120V	1.25A/150W	1.25A/150W	50W	50W	1.25 FLA, 7.5 LRA
240V	1.25A/300W	1.25A/300W	50W	50W	1.25 FLA, 7.5 LRA
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 kits	C4-L-CKKC-XX or 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 wall 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!** Mettez cet appareil à la terre conformément aux exigences du National Electric Code (NEC). NE PAS compter uniquement sur le contact du support de montage avec un boîtier arrière métallique pour une mise à la terre adéquate. Utilisez le fil de terre du support de montage pour établir une connexion sécurisée à la terre de sécurité du système électrique.

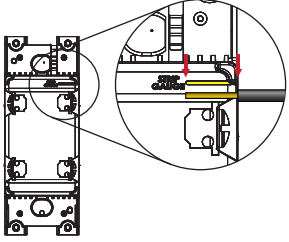
- IMPORTANT!** This device must be installed by a licensed electrician in accordance with all national and local electrical codes.
- IMPORTANT!** If you are unsure about any part of these instructions, consult a qualified electrician.
- IMPORTANT!** Use this device only with copper or copper-clad wire. 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 dimming magnetic (MLV) loads, each transformer must be loaded to at least 50% of its maximum load.

Installation instructions

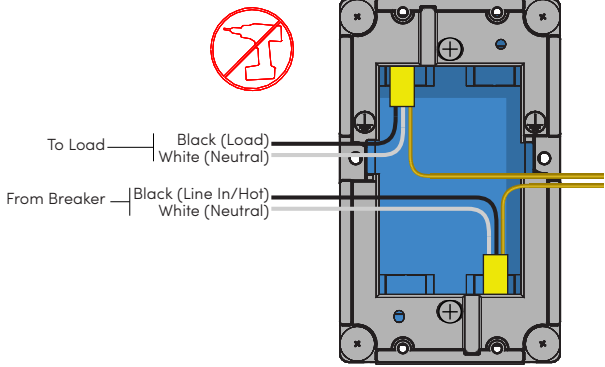
- Ensure that the location and intended use meet the following criteria:
 - Do not exceed the load capacity requirements of the dimmer switch. Refer to the load ratings in the specifications above for details.
 - The range and performance of the Zigbee wireless control system is highly dependent on the following: (1) distance between devices; (2) layout of the home; (3) walls separating devices; and (4) electrical equipment located near devices. To learn more about Zigbee Best Practices, see ctrl4.co/zigbee-bp.
- 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.

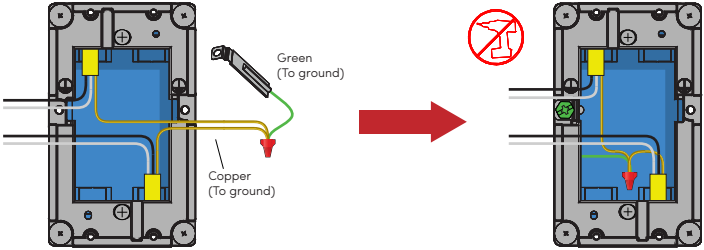
- Prepare each wire. Wire insulation should be stripped back 1/2 of an inch (12.7 mm) from the wire end. You can use the strip gauge on the back of the dimmer switch to check the proper length.



- Identify your wiring application, and then see the appropriate wiring diagram in the "Sample Wiring Configurations" section below.
- Using a manual screwdriver, install the mounting plate to the wall box. Do not overtighten the screws. Pull the wires through the mounting plate.

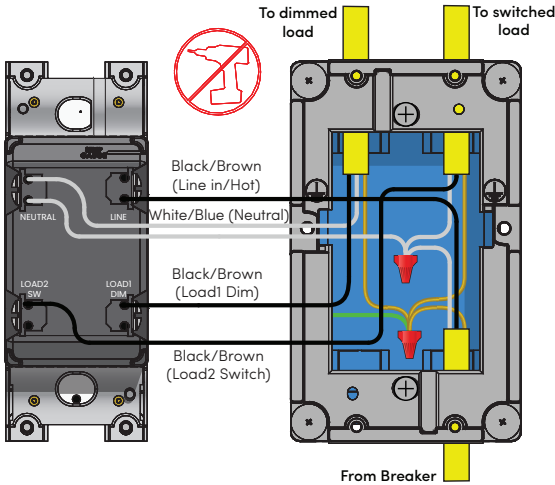


- Connect the supplied ground wire lead to the ground wire in the wall box. Then, using the supplied hardware, fasten the ground wire lead to whichever side of the mounting plate that leaves the most space for the lighting device.



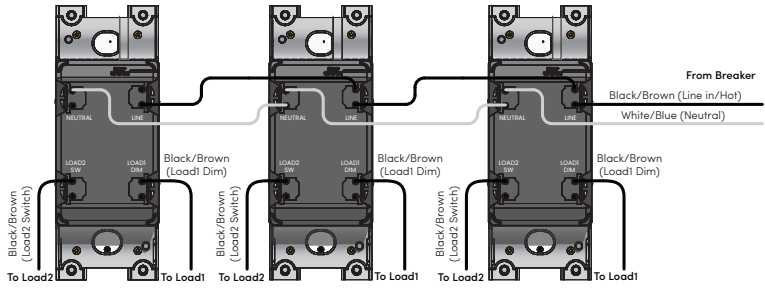
- IMPORTANT!** Grounding this device is required as described in the section *Warnings and Considerations*. DO NOT rely solely upon the mounting plate's contact with a metal wall box for adequate grounding.
- Identify and connect the wires to the back of the dimmer switch. Insert the wire into the terminal 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.

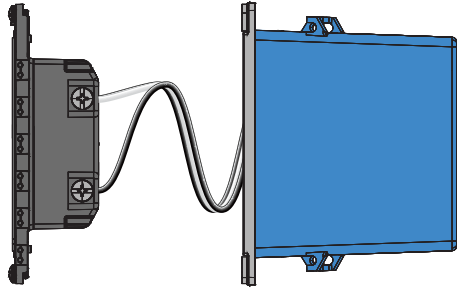


NOTE: The faceplate and mounting plate package includes labels for international wiring standards. Make sure to label the wires to meet local electrical codes.

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



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

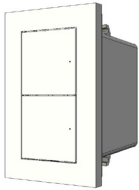


CAUTION: Install buttons after device is installed in the wall box. Pushing the device into the wall box with buttons installed may damage the device.

- 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.
- Install the temporary buttons. Start at the bottom and work your way up. Each button slot on the device has a pair of pegs on each side. Align the button's lower tabs to the device's lower pegs. Then, snap the button onto the device.

TIP: This device ships with temporary buttons on the device for basic operation until finished, engraved buttons can be ordered. Blank, unengraved buttons are also available. To remove the temporary buttons and install the engraved buttons, see the *Control4 Lux Button Installation Guide* (ctrl4.co/lux-butn-ig)

- Install the Control4 Faceplate following the instructions in the *Control4 Lux Faceplate Installation Guide* (ctrl4.co/lux-faceplate-ig).



- Turn on power at the circuit breaker or replace the fuse from the fuse box.



Operation and configuration

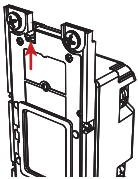
On initial power up, all status LEDs on the dimmer switch will illuminate green indicating that the device has power. To set up this dimmer switch for use with a Control4 system, refer to the *Composer Pro User Guide*.

- To operate this dimmer switch as a stand-alone device if it is not programmed into a Control4 system:
- Click the top button to toggle the dimmed load.
 - Click the bottom button to toggle the switched load.

Use air gap switch when changing the bulb or fixture

With the dimmer turned off, some current still flows through the load. An Air Gap switch is located at the top of the dimmer and disconnects power to the load. Perform the following steps to change a bulb or fixture:

- Turn off the load and remove the faceplate from the dimmer.
- Slide the Air Gap switch upward to engage the air gap.
- Change the bulb or service the fixture.
- Slide the Air Gap switch downward and replace the faceplate.



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 dimmer 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



LED feedback for the dimmed load is show in the top 3 LEDs.
LED feedback for the switched load is shown in the bottom 3 LEDs.

Fault status	Zigbee status
✖ 1 Mosfet fault	● Not identified
✖ 2 Short circuit fault	★ Identifying
✖ 3 Over current fault	● Found Zigbee mesh
✖ 4 Line voltage fault	● Did not find Zigbee mesh
✖ 5 Zero cross fault	● Joined Zigbee mesh
✖ 6 Temperature fault	
✖ 8 Bootup power/wiring fault	
★ ✖ 1 Incorrect product fault	
★ ✖ 3 Self-test fault	
✖ 1 Airgap actuated	
✖ 2 Manufacturing ID fault	

Care and cleaning

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

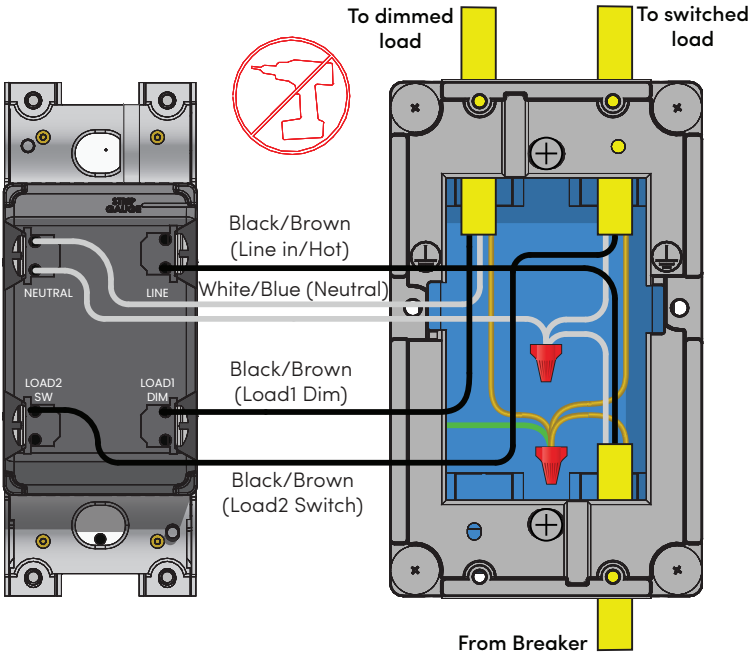
Warranty and legal information

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.

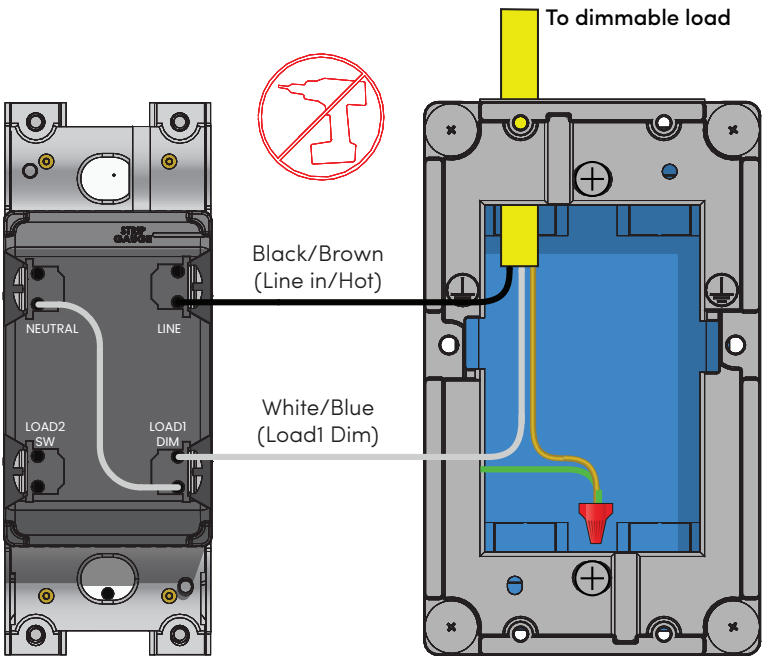
Sample wiring configurations

Single device location



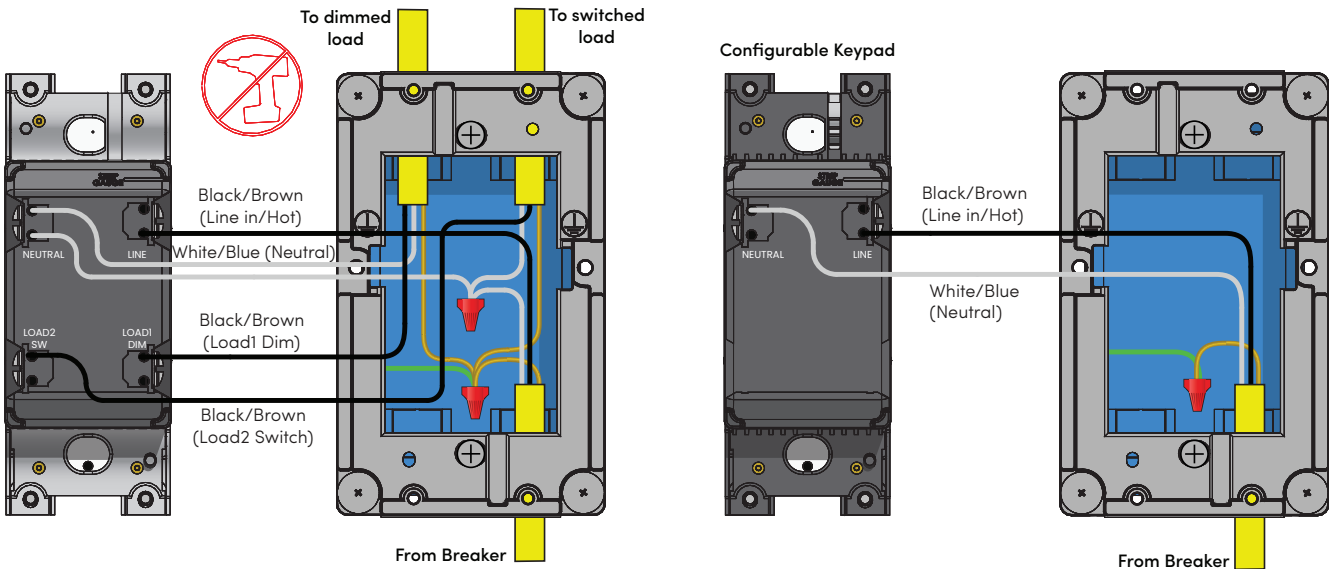
Single device, no-neutral configuration

A no-neutral wiring configuration is possible only when controlling a dimmable load and not a switched load. Switched loads require a neutral.



Multiple device location using Configurable Keypad

The Dual Dimmer Switch does not support an Auxiliary Keypad. To control the dimmer switch from another location, use a Configurable Keypad and link the devices in Composer Pro.



More information and help

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