Lux Fan Speed Controller Installation Guide

Supported model

- C4-L-4SF120 Control4 Lux Fan Speed Controller

Introduction

The Control4® Lux Fan Speed Controller operates independently or as part of a Control4 home automation system to provide four quiet speeds plus an Off setting for standard paddle-type ceiling fans. 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 Fan Speed Controller
- Warranty card
- Temporary button(s)
- *Control4 Lux Fan Speed Controller Installation Guide* (this document)

Mounting Plate Required for Install

The Control4 Lux Fan Speed Controller ***requires*** a faceplate and mounting plate designed to fit your install (1 gang, 2 gang, etc.). These must be installed before you install the device. Part numbers for faceplates and mounting plates are listed below:

- 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-4SF120
Power requirements	120V AC +/-10%, 50/60 Hz Neutral connection is required.
Power consumption	120V, 400mW
Load types and ratings	
Supported load types	Single, paddle-type ceiling fan
Maximum load	2A
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
Wallbox volume	5.75 cubic inches
Weight	0.05 kg (0.12 lb.)
Shipping weight	0.08 kg (0.18 lb.)

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 braket'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! 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.

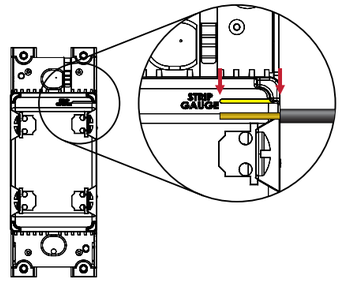
IMPORTANT! This is an electronic device with intricate components. Handle and install with care!

Installation instructions

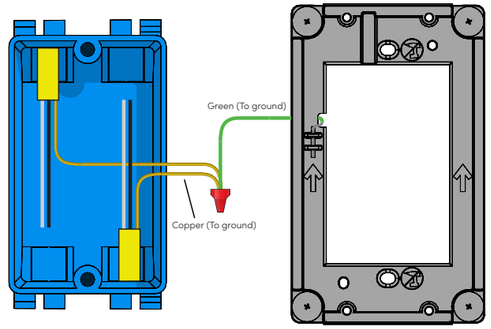
1 Ensure that the location and intended use meet the following criteria:
   - Do not exceed the load capacity requirements of the device. Refer to the load ratings in the specifications above for details.
   - Install in accordance with all national and local electrical codes.
   - The range and performance 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.

NOTE: The wall box wiring shown in this document is an example. Your wire colors and functions may differ. If you are not sure which wires are the Line In/Hot, Neutral, Load, Traveler, and Earth Ground wires, have a trained electrician perform the installation.

3 Prepare each wire. Wire insulation should be stripped back 1/2 of an inch (13 mm) from the wire end. You can use the strip gauge on the back of the device to check the proper distance.



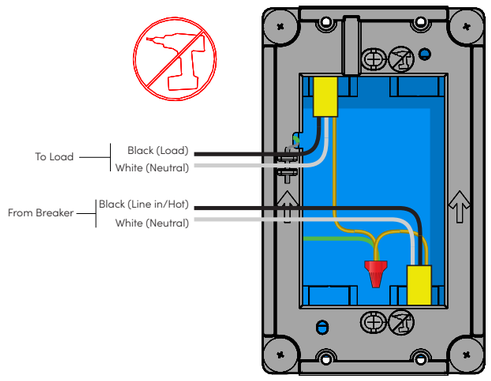
4 Identify your wiring application, and then see the appropriate wiring diagram in the *Sample Wiring Configurations* section below.



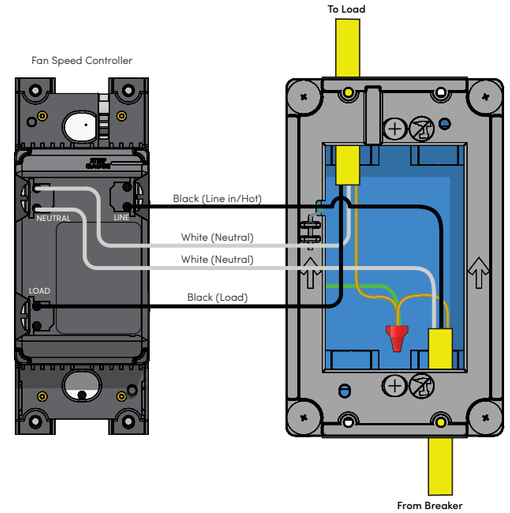
IMPORTANT! This device must be grounded as described in the section *Warnings and Considerations*. Otherwise, the installation may be less immune to damage caused by electrical disturbances, such as ESD or lightning, and may void the warranty.

5 Connect the ground wire lead from the mounting plate to ground in the wall box.

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



7 Identify and connect the wires to the back of the device. Insert the wire into the terminal and secure it by hand-tightening the set screw.



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

9 Align the device to the mounting plate (the strip gauge should be at the top) and fasten it with screws. Tighten the screws until the back side of the device is even with the mounting plate, but no further. Overtightening can warp the device, which may cause mechanical malfunction and mounting inconsistencies.

10 Starting with the bottom button and working your way up, install the temporary buttons onto the device. Orient the buttons with the light pipe on the right. Place the button's left prong onto the black post on the device's left side. Then, snap the other side into place.

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

11 Install the Control4 Faceplate following the instructions in the *Control4 Lux Faceplate Installation Guide* (ctrl4.co/lux-butn-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 device will illuminate green indicating that the device has power. To set up this device for use with a Control4 system, refer to the *Composer Pro User Guide*.

To operate this device as a stand-alone device using buttons designed for the Fan Speed Controller and not programmed into a Control4 system:

- Press the top button to turn the fan on **High**.
- Press the button second from the top to turn the fan on **Medium-High**.
- Press the button third from the top to turn the fan on **Medium**.
- Press the button fourth from the top to turn the fan **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 fan does not turn on:

- Ensure at least one LED on the face of the device is lit.
- 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

- × 3 Over current fault
- × 6 Temperature fault
- × 8 Bootup power/wiring fault
- × 1 Incorrect product fault
- × 3 Self-test fault

Zigbee status

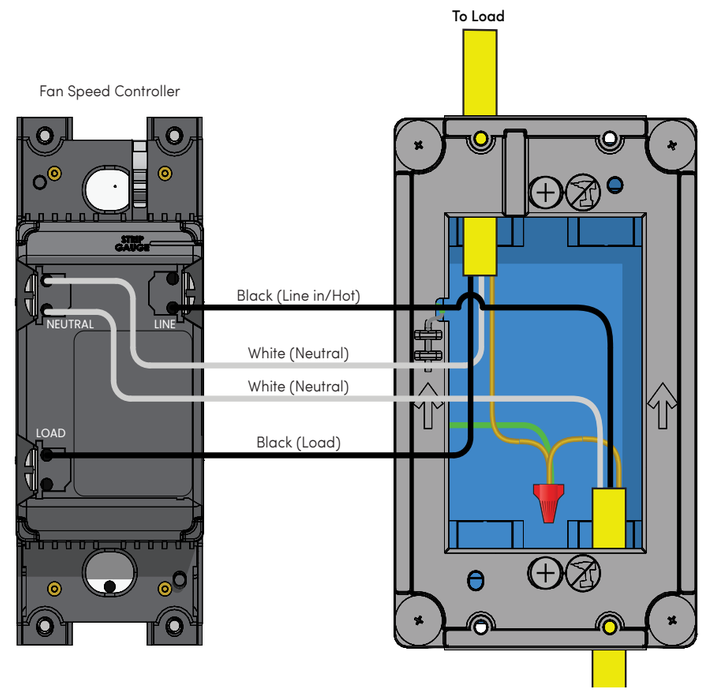
- **Not identified**
- **Identifying**
- **Found Zigbee mesh**
- **Did not find Zigbee mesh**
- **Joined Zigbee mesh**

Care and cleaning

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

Sample wiring configurations

Single device location



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.

More information and help

For the latest version of this guide and to view additional materials, open the URL below or scan the QR code. Your device must be able to view PDFs.

LATEST VERSION OF THIS GUIDE — ctrl4.co/lux-4sf120-ig

CONTROL4 LUX QUICK START — ctrl4.co/lux-qs

CONTROL4 LUX WIRING GUIDE — ctrl4.co/lux-wiring

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