



0-10V Dimmer Installation Guide

Supported Model

- C4-TV240 0-10V Dimmer, 240V

Introduction

The Control4® 0-10V Dimmer 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.

Box Contents

- 0-10V Dimmer
- Terminal Block
- Warranty Card
- *0-10V Dimmer Installation Guide* (this document)

Specifications and Supported Load Types

The specifications are described below.

Model Number	C4-TV240-xx
Power Requirements	220VAC-240VAC +/-10%, 50/60Hz This device requires a neutral AC connection. See "Sample Wiring Configurations" later in this guide.
Power Consumption	1.0W
Load Types and Ratings	
Supported Load Types	Four-wire 0-10V and 1-10V dimmable fluorescent ballasts and LEDs, sink or source.
Maximum Load (Switched Hot)	10A
Maximum Load (0-10V Control)	100mA sink or source
Environmental	
Operational Temperature	32° F - 104° F (0° C - 40° C) All load ratings are based on an ambient temperature of 25° C
Humidity	5% to 95% non-condensing
Storage	-4° F - 158° F (-20° C - 70° C)
Miscellaneous	
Control Communications	ZigBee, IEEE 802.15.4, 2.4 GHz, 15-channel spread spectrum radio
Wallbox Volume	5.75 cubic inches (94.2 cubic centimeters)
Weight	0.12 lb. (0.05 kg)
Shipping Weight	0.18 lb. (0.08 kg)

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.



WARNING! This device must be protected by a circuit breaker (20A max).



WARNING! Ground this device in accordance with the National Electric Code (NEC) requirements. DO NOT rely solely upon the yoke plate's contact with a metal wallbox for adequate grounding. Use the device's ground wire to make a secure connection to the safety ground of the electrical system.



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! To reduce the risk of overheating and possible damage to other equipment, do not install to control a receptacle or a motor-operated appliance.



IMPORTANT! Using this product in a manner other than outlined in this document voids your warranty. Further, Control4 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


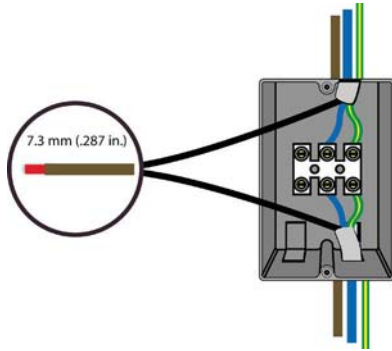
- Ensure that the location and intended use meet the following criteria:
 - Do not exceed the load capacity requirements of the dimmer. Refer to the load ratings in the specifications above for details.
 - Install in accordance with all applicable national and local electrical codes.
 - The range and 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.
- Turn off the mains electrical power at the consumer unit. To ensure the wires do NOT have power running to them, use an inductive voltage detector.
 -  **NOTE:** The back 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 Hot, Neutral, Load, and Ground wires, have a trained electrician perform the installation.
- Prepare each wire. Wire insulation should be stripped back 7mm from the wire end (see Figure 1).

Figure 1. Strip Wire Insulation



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

IMPORTANT! Not grounding this product as described in the section, "Warnings and Considerations," may result in an installation less immune to damage caused by electrical disturbances, such as ESD or lightning, and may void the warranty.

- Identify and connect the dimmer wires to the back box wires using the terminal block.

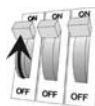
IMPORTANT! The yellow wire is not a traditional traveler. It cannot directly power a lighting load. It must be used only to connect to a Control4 Auxiliary Keypad. See "Sample Wiring Configurations."

TIP: If you are using a Control4 push-on (screwless) faceplate in a multi-gang installation, attach the black faceplate sub-plate to all of the devices that will be installed into the wallbox prior to attaching the devices to the wallbox. This will help ensure that all the devices are properly aligned and on the same plane after installation.

- Fit the wires back into the back box. Bend the wires in a zigzag pattern so that they easily fold into the back box.
- Align the dimmer to the back box (the load rating label should be at the bottom) and fasten it with screws. Tighten the screws until the back side of the yoke plate is even with the wall surface, but no further. Overtightening can warp the dimmer and cause mechanical malfunction.

- Install the Control4 Faceplate following the instructions in the *Faceplate Installation Guide* or attach a standard Decora-style faceplate.

- Turn ON mains power at the consumer unit.



Operation and Configuration

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

To operate this dimmer as a stand-alone device:

- Click the **top button** to turn the light on.
- Click the **bottom button** to turn the light off.
- Press and hold the **top button** to ramp the light up. Release the button at the desired light level.
- Press and hold the **bottom button** to fade the light down. Release the button at the desired light level.

Button Tap Sequences

The button tap sequences are defined in the table below. Button tap sequences that require a single (1) button should use the top button.

Function	Button Sequence
Identify	4
ZigBee Channel	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 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.

Care and Cleaning

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

Regulatory/Safety Information

To review Regulatory information for your particular Control4 products, see the information located on the Control4 website at: <http://www.control4.com/regulatory/>.

Patent Information

Applicable patents are available at <http://www.control4.com/legal/patents>.

Warranty

For complete warranty information, including details on consumer legal rights as well as warranty exclusions, review the Warranty card or visit www.control4.com/warranty.

About this Document

Part Number: 200-00355, Rev A 3/20/2013

Sample Wiring Configurations

Figure 2. Single Device Location, With Neutral Connection

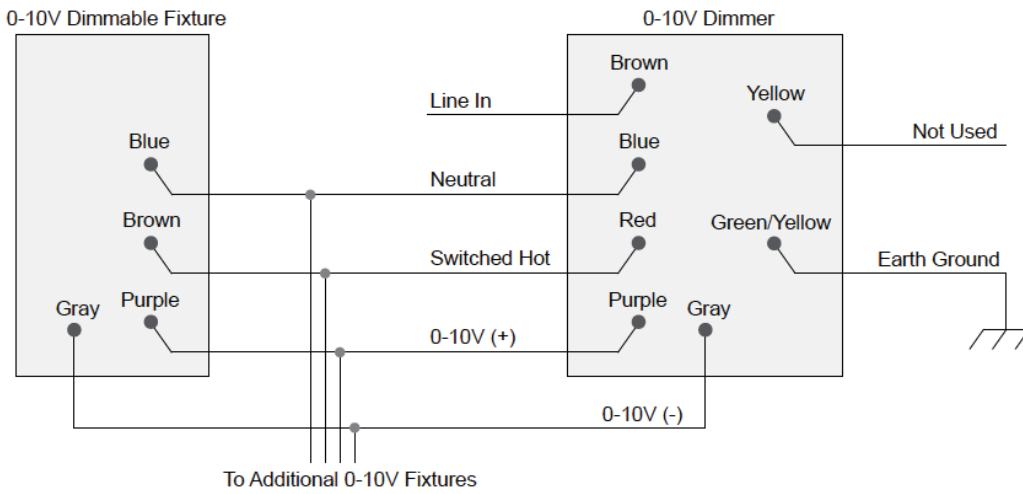


Figure 3. Multiple Device Location Using Auxiliary Keypad, With Neutral Connection

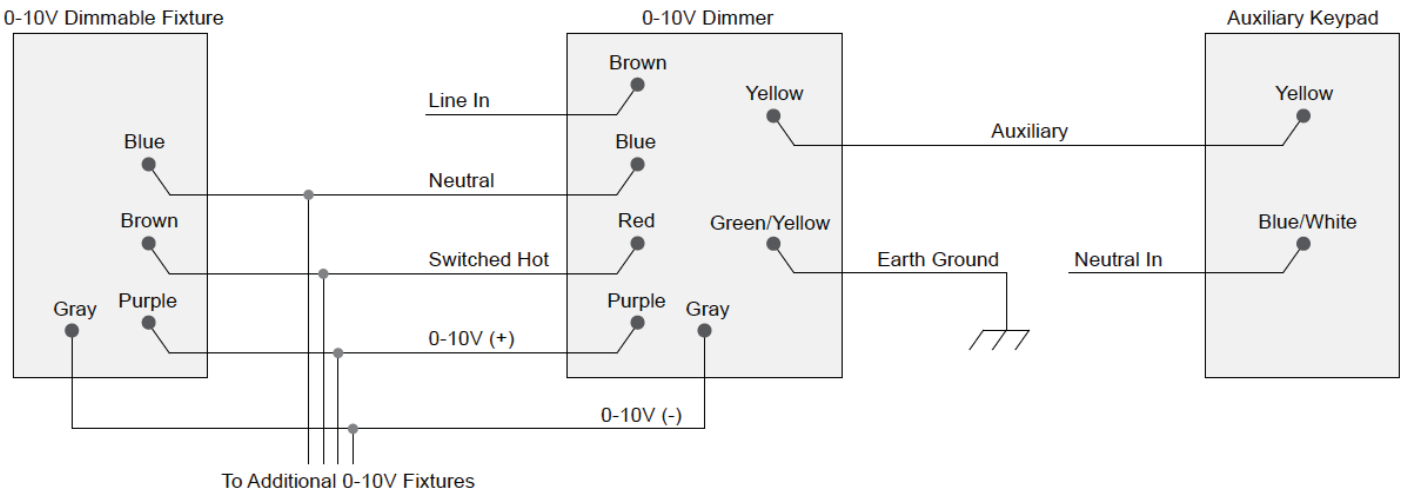


Figure 4. Multiple Device Location Using Configurable Keypad, Neutral Required

