



Wireless ELV Dimmer Installation/User Guide

Supported Models

C4-TDIM1-Z Wireless ELV Dimmer, 120VAC, 600W

Specifications and Supported Fixtures

This Control4® Wireless Dimmer operates as part of a Control4 home automation system to enable intelligent lighting control. It installs in a standard wall box using conventional wiring standards and communicates with other devices through a wireless RF (radio frequency) connection.

Power:	120 VAC +/-10% 50/60 Hz
Supported Load Types and Ratings:	120 VAC 600 W Electronic Low Voltage (dimnable only) 120 VAC 600 W Electronic Fluorescent Ballasts (dimnable only) 120 VAC 500 W Incandescent Tungsten/Halogen Total minimum load must exceed 10 W. This device can function with or without a neutral AC connection (see relevant wiring diagrams).

WARNING! This device is not for use with magnetic or inductive loads. Product damage will result.

Operating Temperature: All load ratings are based on an ambient temperature of 25 degrees Celsius.

Volume: 5.0 Cubic inches

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

Warnings & Considerations

WARNING! Risk of Electric Shock. Install in accordance with all regional, national, and local electrical codes.
AVERTISSEMENT: Risque de Décharge électrique. Installez conformément à tous des codes électriques régionaux, nationaux et locaux.

WARNING! Risk of Serious Injury, Death, or Property Damage or Loss. Install and use properly—as described in this document—to avoid danger of injury, death, or property damage or loss.
PRÉVENANT: le Risque de Blessure Sérieuse, Mort, ou Dommage de Propriété ou Perte. Installez et utilisez correctement comme décrit dans ce document — pour éviter le danger de blessure, mort, ou dommage de propriété ou perte. If you are unsure about any part of these instructions, consult a qualified electrician.

WARNING! Risk of Serious Injury, Death, or Property Damage or Loss. If you are unsure about any part of these instructions, consult a qualified electrician.
PRÉVENANT: le Risque de Blessure Sérieuse, Mort, ou Dommage de Propriété ou Perte. Si vous êtes peu sûrs d'une partie de ces instructions, consultez un électricien qualifié. To reduce the risk of overheating and possible damage to this device and other equipment, DO NOT install to control a receptacle, a motor, or a transformer-operated appliance.

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

PRUDENCE: Risque du fait de surchauffer. Pour réduire le risque du fait de surchauffer et du dommage possible à d'autre équipement, n'installez pas pour contrôler un réceptacle, ou un appareil opéré de moteur.

WARNING! Risk of Electrical Fire. 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.
AVERTISSEMENT: Risque de Feu Électrique. Utilisez cet artifice seulement avec le fil habillé couleur cuivre ou couleur cuivre. N'utilisez pas d'installation électrique en aluminium. Ce produit n'a pas été approuvé pour l'utilisation avec l'installation électrique en aluminium

IMPORTANT! This product generates heat during normal operation.
IMPORTANT: Ce produit produit la chaleur pendant l'opération normale.

IMPORTANT! Use or modification of this product in a manner not expressly approved by Control4 voids your warranty. Further, Control4 is NOT liable for any damage incurred with the misuse of this product. See "Limited 2 Year Warranty."

IMPORTANT: l'Utilisation ou la modification de ce produit dans une manière pas expressément approuvée par les vides Control4 votre garantie. De plus, Control4 n'est pas responsable pour aucun dommage encouru avec le mauvais usage de ce produit. Voir "Limited 2 Year Warranty."

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.

IMPORTANT: la gamme et la performance du système de contrôle sans fil dépendent hautement de la chose suivante : (1) la distance entre les artifice; (2) la disposition de la maison; (3) les murs séparant des artifice; et (4) l'équipement électrique se positionnait près des artifice.

Installation Instructions

1 Turn power OFF by switching off the circuit breaker or removing the fuse; test that the power is off before wiring!

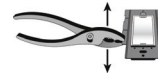


2 Ensure Dimmer capacity matches the load requirements. In multi-Dimmer installations, a reduction of the Dimmer's capacity is required to allow the Dimmers to be installed side-by-side in the same wall box. The Dimmer capacity depends on the number "ganged" in the wall box as follows:

- 1 gang = 600 W / VA maximum (all breakoff tabs attached)
- 2 gang = 500 W / VA maximum per Dimmer (with one side of the breakout tabs removed)
- 3 or more gang = 400 W / VA maximum per Dimmer (will all breakout tabs removed)



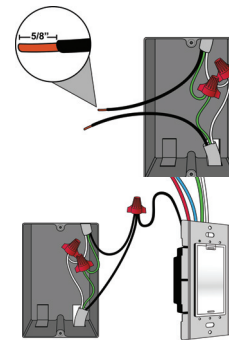
If installing in multi-gang scenarios, use pliers to remove the inner-side break-away tabs: Bend each tab back and forth until it breaks off. Remove the inner-side tabs ONLY on any device side that will be adjacent to another device. DO NOT remove tabs on any side that will become the outer side of a group of devices.



3 Identify your wiring application and see the appropriate diagram in "Sample Wiring Configurations."

- Single-Location Scenario—Power Source at Wall Box
- Single-Location Scenario—Power Source at Light Fixture
- Two-Location Scenario—Power Source at Wall Box
- Two-Location Scenario—Power Source at Light Fixture (on page 2)

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

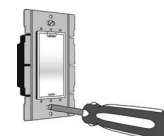


5 Connect the Dimmer wires to the wall box wires using wire nuts according to the relevant wiring diagram. See "Sample Wiring Configurations."

IMPORTANT! The blue wire is not a traditional traveler: It cannot directly power a lighting load. It must only be used to provide power to another Control4 keypad. If you do not intend to use this wire, leave it capped. The blue wire is a "switched hot" wire that is connected internally to the Dimmer's hot wire through the air-gap switch. Power is applied to the blue wire whenever the air-gap switch is closed. Thus, the blue wire is used to provide power to downstream keypads in 3-way/4-way scenarios in order to ensure that all power to the load has been removed when the air-gap switch is open. See "Sample Wiring Configurations."

IMPORTANT: le fil Bleu n'est pas un voyageur traditionnel : Il ne peut pas directement le pouvoir une charge prenante. Il doit seulement être utilisé pour fournir le pouvoir d'un autre pavé numérique Control4. Si vous n'avez pas l'intention d'utiliser ce fil, le quitter couronné. Le fil bleu est un "fil chaud échangé qui est raccordé à l'intérieur au fil chaud du variateur par le changement de trou aérien. Le pouvoir est appliqué au fil bleu chaque fois que le changement de trou aérien est fermé. Ainsi, le fil bleu est utilisé pour fournir le pouvoir d'en aval les pavés numériques dans 3-way/4-way les scénarios pour garantir que tout le pouvoir de la charge a été enlevé quand le changement de trou aérien est ouvert. Faites allusion "Sample Wiring Configurations."

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

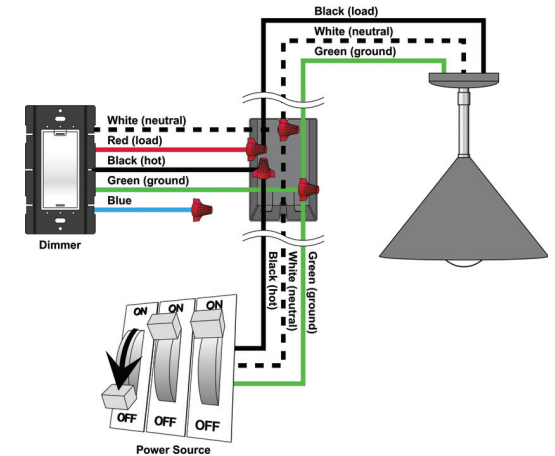


Sample Wiring Configurations

Single-Location Scenario—Power Source at Wall Box

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

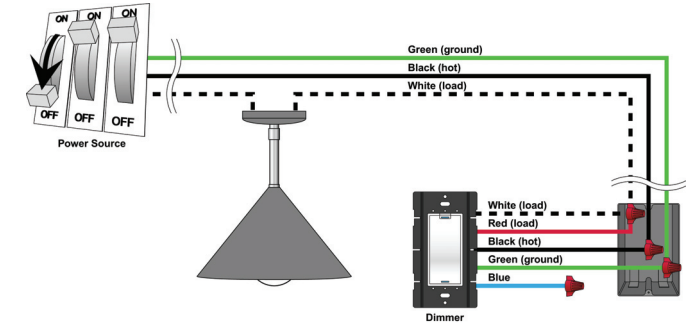
Dimmer Wires	Wires in the Wall Box	
	From Power Source	To Light Fixture
White (neutral)	White (neutral)	White (neutral)
Red (load)	None	Black (load)
Black (hot)	Black (hot)	None
Green (ground)	Green (ground)	Green (ground)
Blue (switched hot)	None	None



Single-Location Scenario—Power Source at Light Fixture

To wire the dimmer for a Control4 single-location scenario in which the power is first routed to the light fixture electrical box, connect together and cap with a wire nut the wires indicated in the following table:

Dimmer Wires	Wires in the Wall Box (from the Light Fixture)
White (load)	White (load)
Red (load)	Black (hot)
Black (hot)	Green (ground)
Blue (switched hot)	None



Two-Location Scenario—Power Source at Wall Box

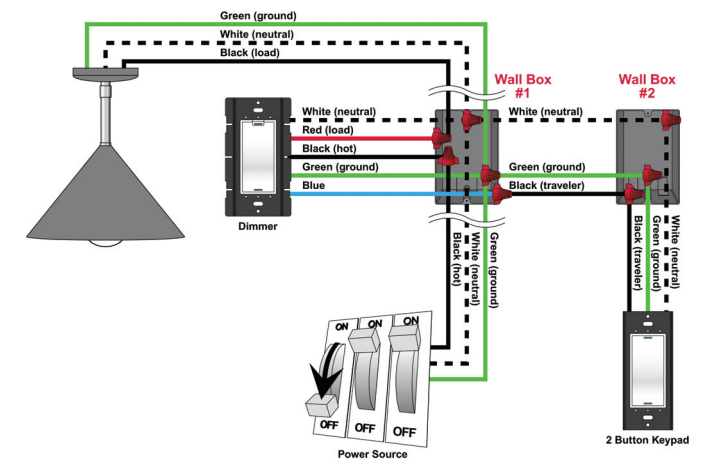
To wire the dimmer and a multi-button keypad in a two-location scenario (Control4's 3-way-switch solution) where the power is first routed to the wall box, do the following:

1. Wire the dimmer into Wall Box #1 by connecting together and capping with a wire nut the following wires:

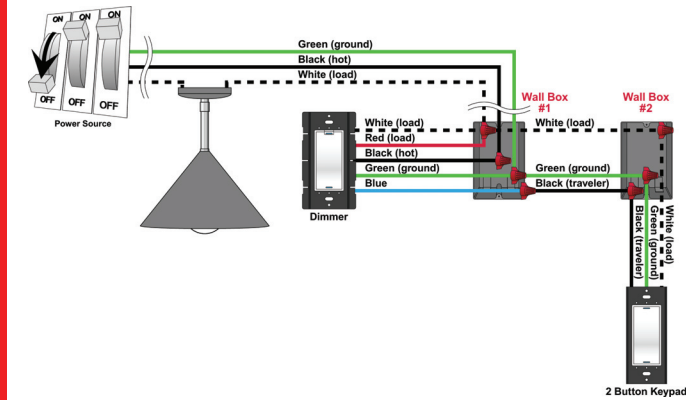
Dimmer Wires	Wires in Wall Box 1		
	From Power Source	To Light Fixture	To Wall Box 2
White (neutral)	White (neutral)	White (neutral)	White (neutral)
Red (load)	None	Black (load)	None
Black (hot)	Black (hot)	None	None
Green (ground)	Green (ground)	Green (ground)	Green (ground)
Blue (switched hot)	None	None	Black (traveler)

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

Multi-Button Keypad Wires (2, 3, or 6-Button)	Wires in Wall Box 2 (from Wall Box 1)
White (neutral)	White (neutral)
Black (traveler)	Black (traveler)
Green (ground)	Green (ground)



Two-Location Scenario— Power Source at Light Fixture



To wire the dimmer and a multi-button keypad in a two-location scenario (Control4's 3-way-switch solution) where the power is first routed to the light fixture electrical box, do the following:

1. Wire the dimmer into Wall Box #1 by connecting together and capping with a wire nut the following wires:

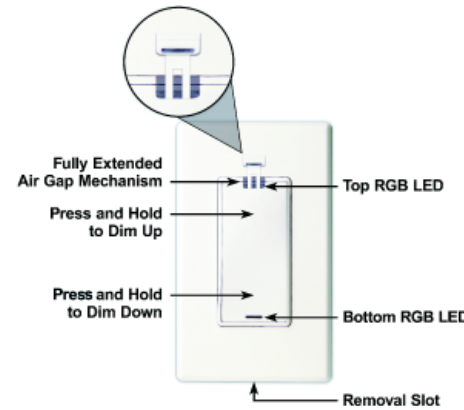
Dimmer Wires	Wires in Wall Box 1	
	From Light Fixture	To Wall Box 2
White (load)	White (load)	White (load)
Red (load)	White (load)	White (load)
Black (hot)	Black (hot)	None
Green (ground)	Green (ground)	Green (ground)
Blue (switched hot)	None	Black (traveler)

2. Wire the multi-button keypad into Wall Box #2 by connecting together and capping with a wire nut these wires:

Multi-Button Keypad Wires (2, 3, or 6 Button)	Wires in Wall Box 2 (from Wall Box 1)
White (load)	White (load)
Black (traveler)	Black (traveler)
Green (ground)	Green (ground)

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 up this dimmer for use with a Control4 system, refer to your system setup documentation.



WARNING! Prior to changing a light bulb or performing any other maintenance to the light fixture, pull up on the Air Gap Mechanism with your fingernail to cut power to the light fixture.
AVERTISSEMENT : Risque de Décharge électrique. Avant de changer une ampoule ou exécuter autre maintenance à l'installation claire, tirez en haut sur le mécanisme de trou aérien avec votre ongle pour couper le pouvoir de l'installation claire.

NOTE: The Dimmer feels warm to the touch under normal conditions.

To operate and configure this Dimmer as a stand-alone device, see the following table.

Change Light Bulb or Fixture	Default Behavior of RGB LEDs:	
To cut power to the fixture:	Top	Bottom
Pull up on the Air Gap Mechanism and fully extend (about 0.3") to cut power to the light fixture.	Not lit	Not lit
Operate Dimmer	Default Behavior of RGB LEDs:	
To operate dimmer:	Top	Bottom
Turn ON (full brightness): Tap top.	Lit	Not lit
Turn OFF: Tap bottom.	Not lit	Lit
Set dimming level: Press and hold the top or bottom until the desired lighting level is reached, then release.	Lit	Not lit
Care and Cleaning		
Do NOT paint dimmer or its wall plate.		
Do NOT use any chemical cleaners to clean the dimmer.		
Clean surface with a soft damp cloth as needed.		

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

AVERTISSEMENT : Risque de Décharge électrique. Fondez l'artifice] conformément au Code Électrique national (NEC) les exigences. Bien que la plaque de joug en aluminium du variateur et le fil de garde vert soient directement bondés ensemble intérieurs au variateur, ne dépendez pas uniquement sur le contact de plaque de joug avec une boîte murale en métal pour les bases adéquates. Utilisez le fil de garde du variateur pour faire une connexion sûre à la terre de sécurité du système électrique.

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

IMPORTANT : Pas les bases de ce produit selon la précédente peuvent s'ensuivre dans une installation moins immunisée pour nuire provoqué par les troubles électriques, comme la foudre et le vide la garantie.

- 7 If you are using the Control4 push-on (screw-less) wall plate that shipped with your Dimmer:

- a. For a single-gang scenario, attach the black plastic sub-plate using the provided sub-plate screws.

IMPORTANT! Tighten the screws until the back side of the metal yoke plate is even with the wall surface, but no farther. Over-tightening can damage the Dimmer and cause mechanical malfunction. Do NOT use a power screw driver to install this device as this may lead to over-tightening.

IMPORTANT : Serrez les vis jusqu'à ce que la face arrière de la plaque de joug en métal soit même avec la surface murale, mais pas plus loin. Le fait de

Troubleshooting

If 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.

Limited 2 Year Warranty

Control4 Corporation ("Control4") warrants that at the time of first-consumer sale, this product will be free from defects in material and manufacture. Control4 further warrants that for a period of 2 years (24 months) after initial consumer sale, the product will function in accordance with its specification, provided that it is installed and maintained under normal and proper use. This warranty extends only to products purchased directly from Control4 or an Authorized Control4 Reseller. If the product proves to be defective in material or workmanship during the warranty period, it may be returned to the place of purchase and Control4 will, at its sole option, repair or replace the product with a like product. This warranty provides the consumer purchaser with specific legal rights, which may vary per state or country. For complete warranty information, including details on consumer legal rights as well as warranty exclusions, visit www.control4.com/warranty.

Regulatory Compliance

FCC

FCC ID: R33TDIM112

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IMPORTANT! Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
IMPORTANT : N'importe quels changements ou modifications pas expressément approuvées par le parti responsable de l'acquiescement pourraient le vide l'autorité de l'utilisateur pour faire marcher cet équipement.

ETL Statement

ETL Control Number: 3129831

This product has been tested by ETL and was found to comply with:

- UL 1472, First Edition, "Standard for Solid State Dimming Controls"
- CSA C22.2 No. 184.1, First Edition, "Solid State Dimming Controls"



Industry Canada

IC ID: 7848A-C4TDIM112

This Class B digital apparatus complies with Canada ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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