

LED/CFL/Electronic Low-Voltage Slide Dimmer

Single Pole (One location) or 3-Way (Multi-location)

For Use with ELV (Electronic Low-Voltage) Transformers
Cat. No. IPE04

CFL/LED 150W, Incandescent 400W, 120VAC, 60Hz, and Electronic Low Voltage - 400VA

INSTALLATION INSTRUCTIONS

WARNINGS:

- **TO AVOID FIRE, SHOCK, OR DEATH, TURN OFF POWER AT CIRCUIT BREAKER OR FUSE, AND TEST THAT THE POWER IS OFF BEFORE WIRING OR SERVICING FIXTURE!**
- **TO AVOID PERSONAL INJURY OR PROPERTY DAMAGE, DO NOT** install to control a receptacle or a load in excess of the specified rating.
- To be installed and/or used in accordance with electrical codes and regulations.
- If you are not sure about any part of these instructions, consult an electrician.
- Use with electronic low-voltage transformers **ONLY**.

CAUTIONS:

- **DO NOT** attempt to service or repair. There are no user-serviceable components.
- Use this device with **COPPER OR COPPER-CLAD WIRE ONLY**.
- **DO NOT** mix bulb types. Use all LED, CFL, or Incandescent bulbs of the same make and model to enhance dimmer performance. For more information on the bulbs that are compatible with this dimmer, scan the QR code on page 2, or go to leviton.com/LED.
- To avoid damage to the product, **DO NOT** use disinfecting products, including foggers, sprays or other types of atomized cleaning agents.
- **DO NOT** spray liquid onto the product.
- To clean, use a damp cloth with mild soap.

Tools Needed to Install Your Dimmer

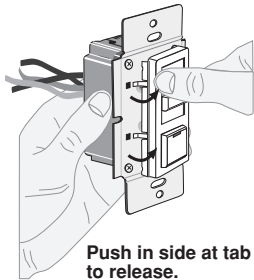
- Slotted/Philips Screwdriver
- Electrical Tape
- Pliers
- Pencil
- Cutters
- Ruler

Color Change Option

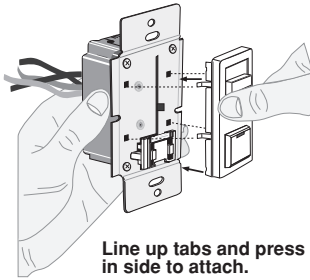
If a color change kit is provided with your device, or if you purchased a color change kit, proceed to the following step. Otherwise, proceed to the "Installing Dimmer by Itself or with Other Devices" section.

Changing the Color of Your Dimmer:

To change color of the frame, proceed as shown below.



Push in side at tab to release.



Line up tabs and press in side to attach.

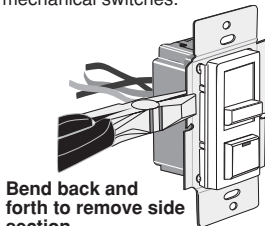
Move the slider up or down one full cycle to automatically engage the slider control mechanism.

Installing Dimmer by Itself or with Other Devices:

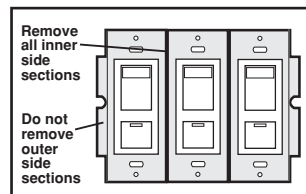
If installing Dimmer in a single device application, proceed with the **INSTALLING YOUR DIMMER** section. If installing Dimmer in a multi-device application, proceed as follows:

MULTI-DEVICE APPLICATION

NOTE: You only need to remove side sections if installing with other dimmers or if it does not fit in wallbox – not when installing with mechanical switches.



Bend back and forth to remove side section



Remove all inner side sections
Do not remove outer side sections

When installing more than one dimmer in the same location, the side sections of the mounting strap must be removed. Use pliers to carefully bend side sections back and forth until they break off. The side sections dissipate heat, so removing them requires a de-rating of the dimmer's capacity (**refer to chart**).

MAXIMUM LOAD PER DIMMER FOR MULTI-DEVICES			
Load	Single	Two Devices	More Than Two Devices
INC	400W	350W	250W
ELV	400VA	350VA	250VA
LED/CFL	150W	150W	150W

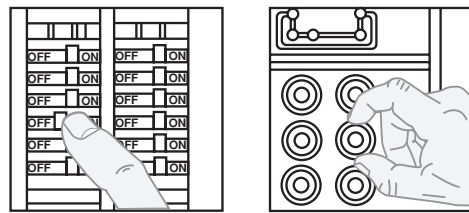
MAXIMUM BULB WATTAGE

Low-voltage dimmers are rated in Volt-Amps (VA). The maximum bulb wattage is determined by the efficiency of the transformer in the low-voltage lighting system. Transformer efficiencies will vary from different manufacturers; consider 80% efficient as average. Use the chart to determine maximum bulb wattage for typical transformer efficiency ratings.

MAXIMUM BULB WATTAGE AT 80% EFFICIENCY			
Rating	Single	Two Gangs	More Than Two Gangs
400VA	320W	280W	200W

INSTALLING YOUR DIMMER

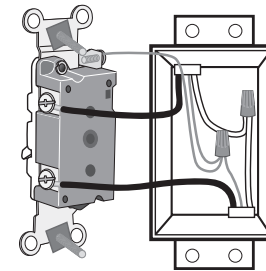
Step 1 WARNING: To avoid fire, shock, or death; **TURN OFF POWER** at circuit breaker or fuse and test that power is OFF before wiring!



Step 2 Removing existing switch: Remove existing wallplate and switch mounting screws. Carefully, pull switch from wallbox. **DO NOT** remove wires attached to the switch at this time.

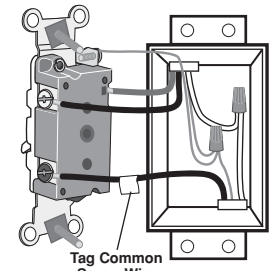
Step 3 Identifying your wiring application (most common):

NOTE: If the wiring in the wallbox does not resemble any of these configurations, consult an electrician.



Single-Pole:

Look at the back of your switch. If there are two wires connected to two screw terminals (not including a green or bare copper wire used for grounding), you have a Single-Pole switch.

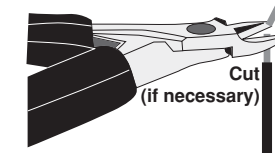


3-Way:

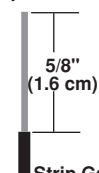
Look at the back of your switch. If there are three wires connected to three screw terminals (not including a green or bare copper wire used for grounding), you have a 3-Way switch. Note that one of the screw terminals will usually be a different color (black) or labeled Common. Tag that wire with electrical tape to identify.

Step 4 Preparing and connecting wires:

- Pull off pre-cut insulation from Dimmer leads.
- Make sure that the ends of the wires from the wallbox are **straight (cut if necessary)**.
- Remove 5/8" (1.6 cm) of insulation from each wire in the wallbox, as shown.
- **For Single-Pole Application, go to Step 5A.**
- **For 3-Way Application, go to Step 5B.**



Cut (if necessary)

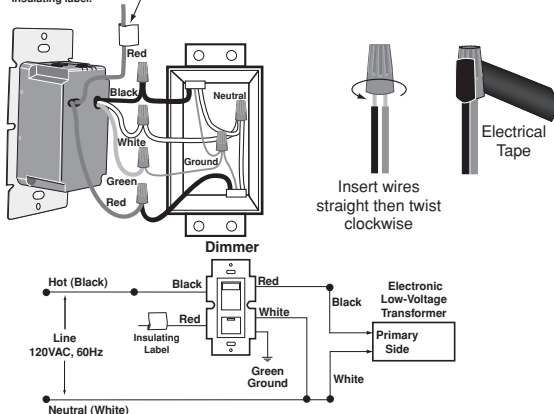


5/8" (1.6 cm)

Strip Gage

Step 5a Single-Pole Wiring Application:

This wire is used in 3-way installations only. For single pole installations, do not remove this insulating label.



Connect wires per WIRING DIAGRAM as follows:

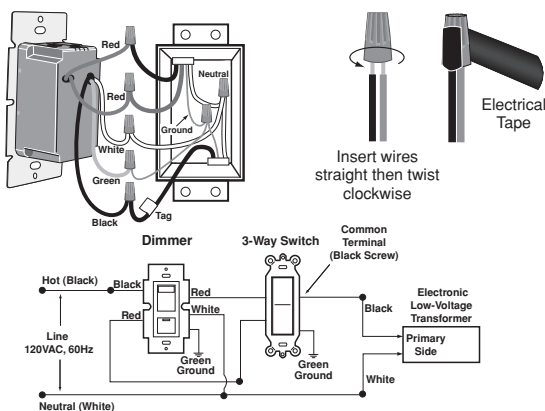
Screw wire nuts on clockwise making sure no bare conductors show below the wire connectors. Secure each connector with electrical tape.

WARNING: CONNECT AN ELECTRONIC LOW-VOLTAGE DIMMER ONLY TO THE PRIMARY (HIGH-VOLTAGE) SIDE OF A ELECTRONIC LOW-VOLTAGE TRANSFORMER.

- Green dimmer Ground lead to Green or bare copper wire in the wallbox.
- Black dimmer lead to any wallbox wire removed from old switch.
- Red dimmer lead without insulating label to remaining wallbox wire.
- Remaining Red dimmer lead should have Red insulation label affixed.

NOTE: If insulating label is not affixed to Red lead, use a small wire nut or electrical tape to cap off. **Proceed to Step 6.**

Step 5b 3-Way Wiring Application:



Step 5b con't

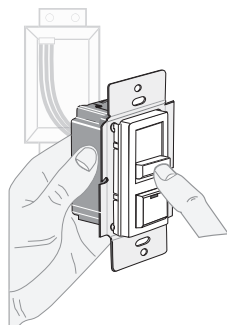
Connect wires per WIRING DIAGRAM as follows:

Screw wire nuts on clockwise making sure no bare conductors show below the wire connectors. Secure each connector with electrical tape.

WARNING: CONNECT AN ELECTRONIC LOW-VOLTAGE DIMMER ONLY TO THE PRIMARY (HIGH-VOLTAGE) SIDE OF A ELECTRONIC LOW-VOLTAGE TRANSFORMER.

- Green dimmer Ground lead to Green or bare copper wire in wallbox.
- Black dimmer lead to tagged (common) wallbox wire identified when removing old switch.
- Remove Red insulating label from Red lead.
- Any Red dimmer lead to any of the remaining wallbox wires.
- Remaining Red dimmer lead to remaining wallbox wire.

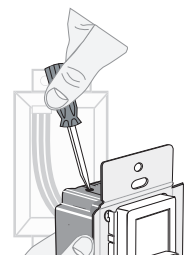
Step 6 Testing your Dimmer prior to mounting in wallbox:



- Restore power at circuit breaker or fuse.
- Carefully holding Dimmer as shown, move slider control lever to highest position. Lights should turn ON to brightest level. If lights do not turn ON, depress push-button switch once. Lights should turn ON to brightest level.

If lights still do not turn ON, refer to the TROUBLESHOOTING section.

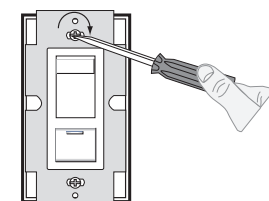
Step 7 Minimum Brightness Adjustment:



This Dimmer incorporates a minimum brightness adjustment that allows you to set the level of light when the slider control lever is in the lowest position.

Move slider to the lowest position. Using a small, insulated screwdriver, rotate the adjustment screw as shown until the desired level of minimum brightness is obtained.

Step 8 Dimmer Mounting: TURN OFF POWER AT CIRCUIT BREAKER OR FUSE.



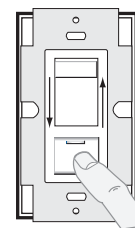
Installation may now be completed by carefully positioning all wires to provide room in wallbox for dimmer. Mount dimmer into box with mounting screws supplied. Attach wallplate.

Step 9 Restore Power: Restore power at circuit breaker or fuse. Installation is complete.

OPERATION

NOTE: The indicator light will illuminate when the dimmer is in the OFF position to facilitate access in the dark.

NOTE: If using the dimmer in a 3-way application, the lights will turn ON at brightness set on dimmer's slide control lever.



ON/OFF:

Depress push-button switch to ON position - Lights will turn ON.

Depress push-button switch to OFF position - Lights will turn OFF.

BRIGHTEN & DIM:

Move slider control lever - Lights will BRIGHTEN or DIM.

TROUBLESHOOTING

- **Lights Flickering**
 - Lamp has a bad connection.
 - Wires not secured firmly with wire connectors.
 - Load not electronic low-voltage.
- **Light does not turn ON and Locator LED does not turn ON**
 - Circuit breaker or fuse has tripped.
 - Lamp is burned out.
 - Lamp Neutral connection is not wired.
- **LED bulb flickers throughout dimming range**
 - Make sure you use compatible, dimmable LED, CFL, Incandescent bulbs, or 120V halogen fixtures only.

For more information on the LED bulbs/ fixtures that are compatible with this dimmer, scan the QR code, or go to leviton.com/LED.



For non-standard wiring applications, refer to Wire Connector and Conductor Size Chart.

WIRE CONNECTOR/# OF CONDUCTOR COMBINATION CHART

1- #12 w/ 1 to 3 #14, #16 or #18
2- #12 w/ 1 or 2 #16 or #18
1- #14 w/ 1 to 4 #16 or #18
2- #14 w/ 1 to 3 #16 or #18

FCC STATEMENT

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:

- Reorient 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.

IC STATEMENT

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Patents covering this product, if any, can be found on www.leviton.com/patents.

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FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at **Leviton Manufacturing of Canada ULC to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9**, or by telephone at 1 800 405-5320.

LIMITED 5 YEAR PRODUCT WARRANTY

For Leviton's limited 5 year product warranty, go to www.leviton.com. For a printed copy of the warranty call 1-800-323-8920 or write to Leviton Manufacturing Co., Inc., At: Customer Service Dept., 201 North Service Road, Melville, New York 11747.