LEVITON
Building A Connected World

DI-00X-06615-02B

Single Pole (One location) or 3-Way (Multi-location)
Electronic Low-Voltage Slide Dimmer

Cat. No. 6615-P

300W–120VAC, 60Hz

INSTALLATION INSTRUCTIONS

DECORA® SURESLIDE™

WARNINGS:

- To be installed and/or used in accordance with appropriate electrical codes and regulations.
- If you are unsure about any part of these instructions, consult a qualified electrician.
- To avoid overheating and possible damage to this device and other equipment, do not install to control a receptacle, fluorescent lighting, a motor- or a transformer-operated appliance.
- Use with electronic low-voltage transformers only. **Do Not** use to control a magnetic low-voltage transformer. Use a Leviton magnetic low-voltage dimmer to control magnetic low-voltage transformers.
- This dimmer provides protection from overheating. An excessive load applied to the dimmer will cause the dimmer to overheat. The excess load must be removed to resume proper operation.

CAUTIONS:

- This dimmer requires a neutral wire connection. If a neutral wire is not in the wall box, consult a qualified electrician.
- Use only one (1) dimmer in a 3- or 4-way circuit. The switch(es) will turn the light on at the brightness level selected at the dimmer.
- Lighting fixture and dimmer must be grounded.
- Disconnect power at circuit breaker or fuse when servicing fixture.
- Use this device only with copper or copper clad wire. With aluminum wire use only devices marked CO/ALR or CU/AL.

Tools needed to install your Dimmer:

Slotted/Philips Screwdriver	Electrical Tape
Pliers	Pencil
Cutters	Ruler

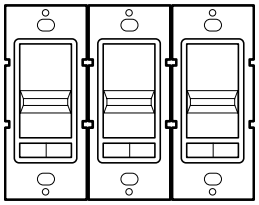
Installing Dimmer by itself or with other devices:

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

In multi-dimmer installations, the reduction of the dimmer's capacity is required. Refer to the chart for maximum load per dimmer.

MAXIMUM LOAD PER DIMMER FOR MULTI-DEVICE			
Cat. No.	Single	Two Devices	More than 2 Devices
6615-P	300W	300W	250W



MAXIMUM BULB WATTAGE

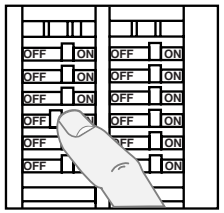
The maximum bulb wattage is determined by the efficiency of the transformer in the low-voltage lighting system. Transformer efficiencies will vary from different manufacturers; consider 80% efficient as average. Use the chart to determine maximum bulb wattage for typical transformer efficiency ratings.

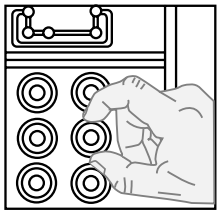
MAXIMUM BULB WATTAGE AT 80% EFFICIENCY			
Rating	Single	Two Gang	More than 2 Gang
300W	240W	200W	160W

INSTALLING YOUR DIMMER

NOTE: Use check boxes ☑ when Steps are completed.

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!

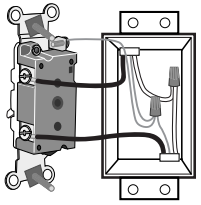




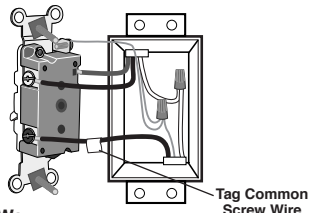
Step 2 ☐ **Removing existing switch:** Remove existing wallplate and switch mounting screws. Carefully pull switch from wall box. **DO NOT** remove wires attached to the switch at this time.

Step 3 ☐ **Identifying your wiring application (most common):**

NOTE: If the wiring in the wall box does not resemble any of these configurations, consult a qualified electrician.

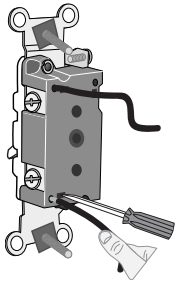


Single-Pole:
Look at the back of your switch. If there are 2 wires connected to two screw terminals (not including a green or bare copper wire used for grounding), you have a Single-Pole switch.



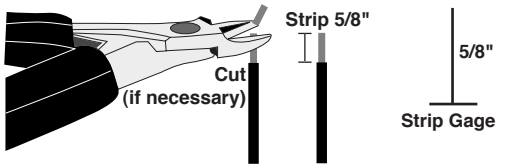
3-Way:
Look at the back of your switch. If there are 3 wires connected to three screw terminals (not including a green or bare copper wire used for grounding), you have a 3-Way switch. Note that one of the screw terminals will usually be a different color (black) or labeled Common. Tag that wire with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

Step 4 ☐ **Disconnecting switch wires and preparing wires:**

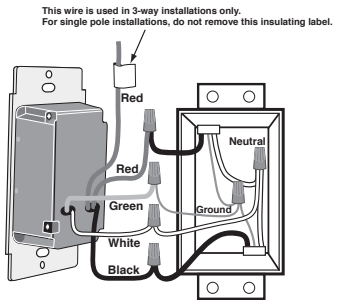


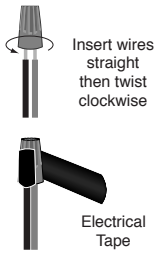
Press in slot and pull out wire

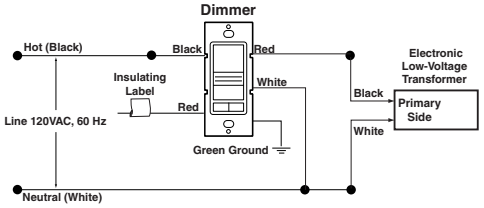
- Disconnect wires from screw terminals or Quickwire™ slots (shown).
- Pull off pre-cut insulation from Dimmer leads.
- Make sure that the ends of the wires from the wall box are ***straight (cut if necessary)***.
- Remove 5/8" (1.6 cm) of insulation from each wire in the wall box (shown).
- **For Single-Pole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



Step 5a Single-Pole Wiring Application using 3-Way Dimmer:





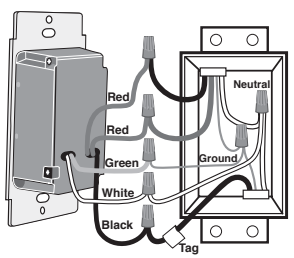


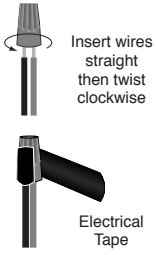
Connect wires per WIRING DIAGRAM as follows:
Screw wire nuts on clockwise making sure no bare conductors show below the wire connectors. Secure each connector with electrical tape.

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

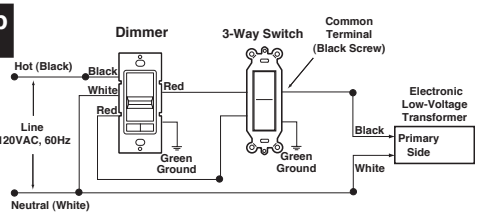
- Green dimmer Ground lead to Green or bare copper wire in wall box.
- Black dimmer lead to any wall box wire removed from old switch.
- White dimmer lead to White Neutral wall box wire.
- Red dimmer lead without insulating label to remaining wall box wire.
- Remaining Red dimmer lead should have Red insulation label affixed. **Proceed to Step 6.**
  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 cont'd

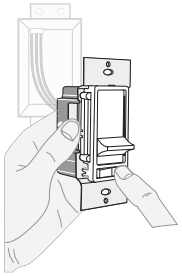


Connect wires per WIRING DIAGRAM as follows:
Screw wire nuts on clockwise making sure no bare conductors show below the wire connectors. Secure each connector with electrical tape.

WARNING: CONNECT AN ELECTRONIC LOW-VOLTAGE DIMMER ONLY TO THE PRIMARY (HIGH-VOLTAGE) SIDE OF A ELECTRONIC LOW-VOLTAGE TRANSFORMER.
NOTE: Dimmer can be installed on either the Load or Line side.

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

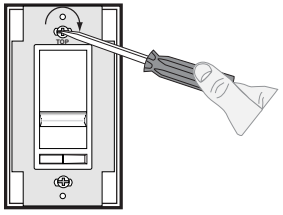
Step 6 Testing your Dimmer prior to mounting in wall box:



- Restore power at circuit breaker or fuse.
- Carefully holding Dimmer as shown, slide control lever to highest postion. If lights are not ON, press rocker. Lights should turn ON to brightest level.
  If lights do not turn ON, refer to the TROUBLESHOOTING section.

Step 7 Dimmer Mounting:

TURN OFF POWER AT CIRCUIT BREAKER OR FUSE.



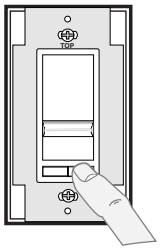
Installation may now be completed by carefully positioning all wires to provide room in wall box for dimmer. Mount dimmer into box with mounting screws supplied. Attach Decora® wallplate.

Step 8 Restore Power:

Restore power at circuit breaker or fuse. **Installation is complete.**

OPERATION

NOTE: If using the dimmer in a 3-way application, the lights will turn ON at the level the slider is set for both single pole and 3-way applications. The lighting can be controlled from either the dimmer or the switch location.



ON: Push rocker switch ON.
OFF: Push rocker switch OFF.
BRIGHTEN: Raise slider control lever to desired level of light.
DIM: Lower slider control lever to desired level of light.

TROUBLESHOOTING

- Lights Flickering
  - Lamp has a bad connection.
  - Wires not secured firmly with wire connectors.
- Light does not turn ON
  - Circuit breaker or fuse has tripped.
  - Lamp is burned out.
  - Lamp Neutral connection is not wired.

NOTE: If further information is needed in identifying the HOT wire in a 3-Way application, go to *Leviton's website at www.leviton.com.*

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

WIRE NUT / # OF COND. 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

PRODUCT INFORMATION

- For technical assistance, contact us at ***1-800-824-3005***
- Visit our website at ***www.leviton.com***

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