

Step 6 Dimmer Mounting:

TURN OFF POWER AT CIRCUIT BREAKER OR FUSE.

- Installation may now be completed by firmly tightening mounting screws.
- Attach appropriate cover plate.

Step 7 Restore Power: Restore power at circuit breaker or fuse. **Installation is complete.**

OPERATION

- Turn knob full counter clockwise for off. (No mechanical click, just a hard stop.)
- Turn knob clockwise to desired brightness.
- When power to the dimmer is on a switched circuit.
 - Set dimmer to desired brightness.
 - When circuit is powered bulbs will soft start to preset level.
- Average over current protection activates above 10 amps.
 - Lights blink continuously to indicate average over current.
 - Automatically clears when load is reduced.
- Instantaneous over current activates above 30 amps.
 - Typically occurs when using halogen bulbs. (halogen bulbs can have a 10 to 1 start-up current pulse)
 - Automatically retries for a fixed number of times.
 - Bulbs usually warm up and will reach normal operation.
 - Protects dimmer in the event of a short circuit.
 - Latches off to protect dimmer after fixed number of retries. (≈ 10 secs)
 - Reset by cycling power, or.....
 - Reset by turning dimmer knob to full off.

TROUBLESHOOTING

- Lights Flickering
 - Lamp has a bad connection.
 - Wires not secured firmly with wire connectors.
 - LED bulbs (verify they are dimmable).
- Light does not turn ON
 - Circuit breaker or fuse has tripped.
 - Verify low voltage present at dimmer wiring using a voltmeter.
 - Lamp is burned out.
 - Lamp wiring may be disconnected.

LIMITED 1 YEAR WARRANTY AND EXCLUSIONS

Letzgo Products, Inc. warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Letzgo Products, Inc. is free of defects in materials and workmanship under normal and proper use for one year from the purchase date. Letzgo Products, Inc.'s only obligation is to correct such defects by repair or replacement, at its option, if within such one-year period the product is returned prepaid, with proof of purchase date, and a description of the problem to **Letzgo Products, Inc.** This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. **There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose,** but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to one year. **Letzgo Products, Inc. is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation.** The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

INSTALLATION INSTRUCTIONS

WARNINGS & CAUTIONS:

- 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.
- Use with 12 VAC incandescent, dimmable LED, or halogen fixtures only.
- Must be supplied with 12 to 15 VAC secondary side power from a step-down transformer rated appropriately for the load. (Minimum operating voltage ≈ 9.2 VAC)
- Total maximum load current must not exceed 10 amps.
- Disconnect power at circuit breaker or fuse box when servicing fixture.
- Use this device only with copper or copper clad wire.
- Recommended to use with weatherproof electrical box and cover for outdoor usage.
 - Dimmer is IP67 rated.
 - Use waterproof electrical splices in outdoor applications, when not using a weatherproof electrical box.
- Dimmer cannot be installed in electrical box containing high voltage.

Tools needed to install your Low Voltage Dimmer:

- Slotted/Phillips Screwdriver
- Pliers
- Cutters
- Wire strippers
- Electrical Tape

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:

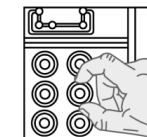
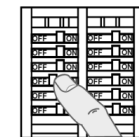
MULTI-DEVICE APPLICATION

When installing more than one device in a multi-gang box the devices must be derated to the maximums shown in the following table.

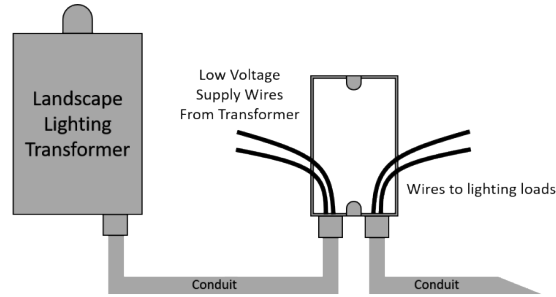
MAXIMUM LOAD PER DIMMER FOR MULTI-DEVICE			
System Type	Single	Two Devices	More than 2 Devices
12 VAC	120W	100W	80W

INSTALLING YOUR DIMMER

Step 1 WARNING: To avoid fire, arcing, or other dangers; **TURN OFF POWER** at primary side of transformer via circuit breaker or fuse and test that power is off before wiring!

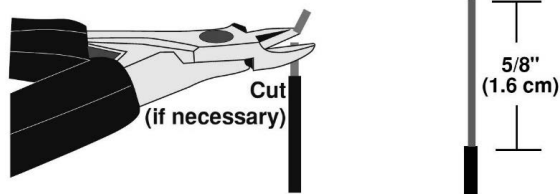


Step 2 Verify wiring from secondary side of transformer to electrical box is correct.

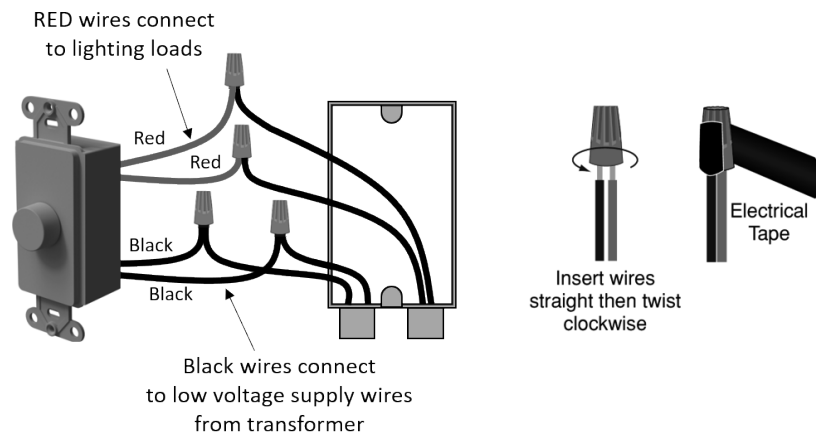


Step 3 Preparing the wires.

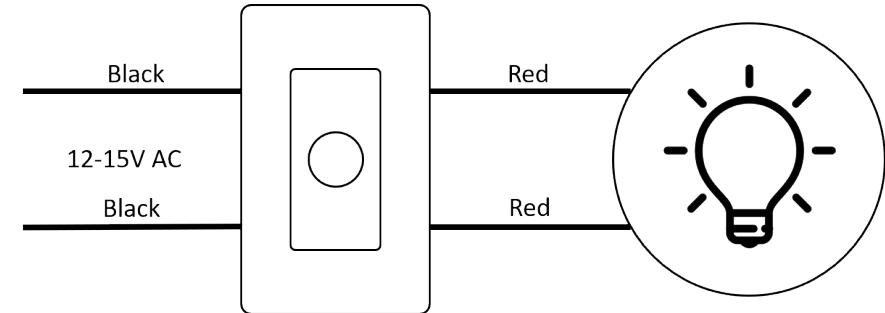
- Make sure that the end of the wires from the electrical box are **straight (cut if necessary)**.
- Remove approximately 5/8" (1.6cm) of insulation from each wire in the electrical box (shown).



Step 4 Single Device Wiring Application.



Step 4 cont'd Single Device Wiring Application.

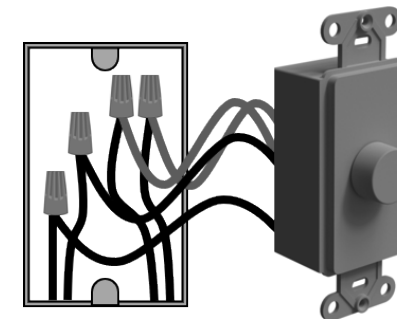


Connect wires per WIRING DIAGRAMS above as follows:

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

- Black wires connect to 12-15V AC low voltage wiring from transformer secondary.
- Red wires connect to load side wiring.

Step 5 Testing Dimmer prior to completely mounting in electrical box.



NOTE: Dress wires with a bend as shown in diagram to relieve stress when mounting device.

- Position all wires to provide room in electrical box for device.
- Partially secure device using mounting screws provided.
- Restore power at circuit breaker or fuse.
- Turn knob full clockwise. Lights should turn ON.
- Turn knob counter-clockwise to verify lights dim properly.
- **If lights do not turn ON, refer to the TROUBLESHOOTING section.**