

**Accessories** (sold separately): Tresco® LED lights, Tresco® 0-10V power supplies (optional), mounting blocks (12VDC), 5-output barrel splices (24VDC), extension and link cords (various lengths)

# Installation Instructions

## 0-10V Preset Dimmer

For use with: 0-10V Lighting Control Devices

### Read all instructions before installing system.

Before beginning installation, be sure power is turned OFF to the power supply and light system.

All wiring must be in accordance with NEC and local electrical codes.

### Operation

The 0-10 volt low-voltage lighting control provides dimming control for 0-10 volt compatible LED drivers, fluorescent ballast and HID ballast. Minimum light level (low-end) shall be adjusted to optimize performance.

### Important Notes

Please read before installing

1. Turn off power at circuit breaker or fuse before wiring.
2. Only one dimmer can be used per 3-way circuit.
3. It is normal for the dimmer to feel warm to the touch during operation.
4. For supply connector, use wires rated for at least 167°F (75°C) and use copper wire only.

**CAUTION** - To reduce the risk of overheating and possible damage to other equipment, do not install to control a receptacle, a motor-operated appliance or a fluorescent lighting fixture or a transformer supplied appliance.

### Dimming Range Adjustment

1. Push dimmer on and move slider down to the bottom.
2. Turn knob down until lowest light level is achieved and light output is stable for all bulbs.
3. Turn dimmer off, then back on to verify bulbs.
4. Turn knob up lightly and do step 3 again if all bulbs do not turn on.

### LIGHTS DO NOT OPERATE AT FULL BRIGHTNESS:

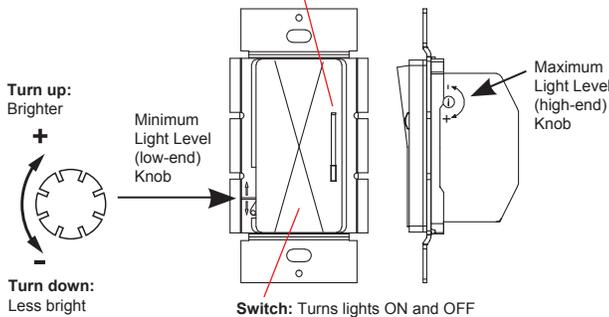
Push slide up. Turn high-end knob clockwise with a screwdriver to achieve maximum light intensity.

### LIGHTS DO NOT DIM LOW ENOUGH:

Push slide down. Turn the low-end knob counter-clockwise to achieve minimum light intensity.

### Sensitivity Knob

**Slider:** Controls light level. Up increases light level, down decreases light level.



**IMPORTANT:** To avoid lights turning off or flickering at low end: push slide down to the lowest level. Turn the low-end knob clockwise until the lights remain on without flickering.

### Multi-Gang:

#### Device Rating

(Single, Double, & Triple-Gang Rating)

120V AC, 50-60Hz, 6A  
277V AC, 50-60Hz, 3A  
CFL/LED/Electronic self-ballasted

### Installing the Dimmer

#### 1. Turn power OFF.

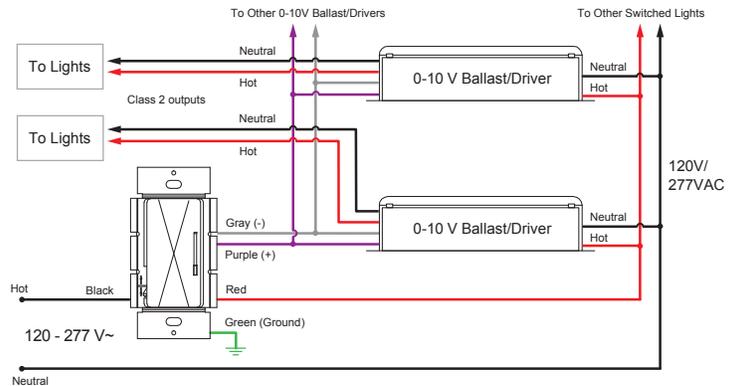
#### 2. Wiring the Dimmer.

The illustrations below show basic wiring. Consult local NEC or an electrician for more specific wiring.

*Lighting wiring not shown—see lighting device for wiring*

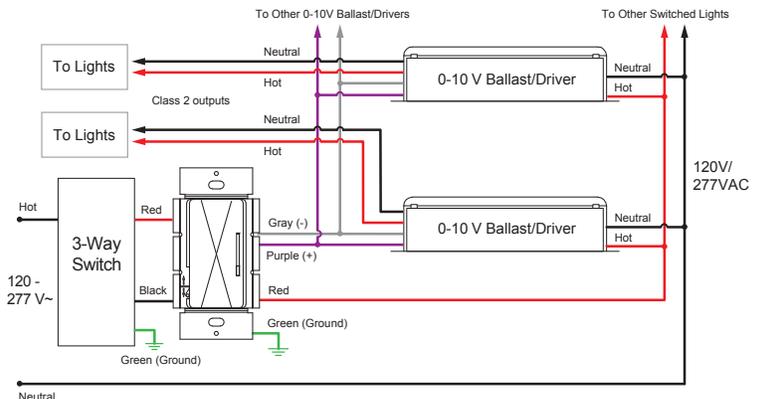
1. Connect the 0-10V Dimmer black wire to the hot wire (black) in the wall box.
2. Connect the 0-10V Dimmer white wire to the neutral wire (white) in the wall box.
3. Connect the 0-10V Dimmer red wire without 3-way label to light load wire in the wall box.
4. This device must be properly grounded for shock protection. To do this, connect the wall box ground wire (green or bare) to the 0-10V Dimmer's green terminal screw.

### Single Pole Wiring



Note: Wire locations will vary. Reference wires by color not location.

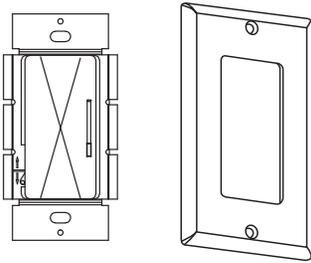
### 3-Way Wiring



### 3. Mounting dimmer to wallbox.

Push wires carefully into the wallbox.

Install wallplate.



### 4. Turn power ON.

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## IMPORTANT SAFETY INSTRUCTIONS

**CAUTION:** To reduce the risk of fire, electric shock, or injury to persons:

**Shock Hazard:** Whenever hardwiring the AC dimmer to a 120-volt circuit, turn off power at the circuit breaker or fuse before installing. Failure to do so may result in serious personal injury or death.

**Warning:** All wiring must be in accordance with national and local electrical codes, low-voltage Class 2 circuit. Failure to install the dimmer in compliance with applicable codes and regulations may cause serious personal injury, death and/or major property damage.

- A licensed electrician should be consulted if you are not sure about any part of these instructions or for wiring through ceilings, soffits, or walls.
- Do not conceal the line voltage input cord inside a wall, ceiling, soffit, or similar permanent structure, unless proper wire per NEC is being used. This requirement does not apply to 12VDC or 24VDC wiring between the power supply and the cabinet light system. For low voltage wire runs inside a wall, ceiling, soffit, or similar permanent structure, use CL2 or better cabling.
- Do not install low-voltage Class 2 wiring along the same run as AC line voltage. If the line voltage and low-voltage wires need to cross, keep them at 90° angles.
- Route and secure cords so they will not be pinched or damaged.

- Use only insulated staples or plastic ties to secure ALL loose wires.
- Only install the wall dimmer on the input (line voltage) side of the power supply.

**!** **Do not add a plug-in to input wires and attempt to dim a receptacle.** This can cause unwanted lighting effects (such as flickering), is dangerous, and against NEC in certain applications.

- Intended for dry or damp locations only. Not intended for wet locations.
- Not intended for recessed installation in ceilings or soffits.
- All wiring must follow NEC regulations.
- Do not exceed electrical ratings of device.
- A single branch circuit shall supply the device.
- Use only with permanently installed fixtures with dimmable screw-in compact fluorescent, dimmable screw-in LED, halogen or incandescent lamps.
- To avoid overheating and possible damage to other equipment, do not use to control receptacles, motor-driven appliances, or low-voltage transformer-supplied appliances.

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**Save these instructions for future reference.**

**For technical assistance, call 1-800-227-1171**



**Tresco® Lighting**  
12400 Earl Jones Way  
Louisville, KY 40299

Tel: 800-227-1171

Fax: 502-491-2215

Email: [cservice@trescolighting.com](mailto:cservice@trescolighting.com)

Web: [www.trescolighting.com](http://www.trescolighting.com)

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