

Sunlite 55159 LED Dimmer Switch Instruction Manual

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Sunlite 55159 LED Dimmer Switch

Installation Instructions for LED Dimmer Switch

Works with 0-10V dimmable power supplies or lighting fixtures only.

WARNINGS AND CAUTIONS

- To avoid the risk of fire, shock, products should be installed in accordance with electrical codes and regulations.
- The product shall be used together with an upstream air-gap switch.
- Turn power off at circuit breaker or fuse and test that power is off before installing.
- After installed the dimmer, it is recommended to set the minimum brightness level to make bulbs turn on immediately and the dimmer with maximum dimming range.
- If you are unsure about any part of these instructions, consult a licensed electrician.
- To avoid the risk of overheating and possible damage to the equipment, do not install to control a receptacle, a motor-operated appliance or a transformer-operated appliance.
- This product can only be used with 0-10V dimmable power supplies or lighting fixtures.
- When the dimmer is connected to multiple 0-10V dimmable power supplies or lighting fixtures, do not mix different models of 0-10V dimmable power supplies or lighting fixtures. Using the same model of 0-10v dimmable power supplies or lighting fixtures will improve the system's dimming performance.

Functional parts instructions

1. Slide Control Lever

2. Rocker Switch
3. Adjustment Button

Slide Control Lever 1

- Move slide control lever up to increase brightness, move down to decrease brightness.

Rocker Switch 2

- Press the rocker switch of the dimmer, turn power on or off.

Adjustment Button 3

- Turn clockwise the adjustment button to increase brightness, turn counter-clockwise to decrease brightness.
- Adjustment button can adjust and set the minimum brightness level of the bulbs, make bulbs turn on and dimmer with maximum dimming range. Detail see step 7.

Parts information

Tools needed to install your Dimmer

Installation and testing

Step 1

WARNING: To avoid fire and electrical shock, TURN OFF POWER at circuit breaker or fuse and test that power is off before wiring.

Step 2

Removing existing switch: Remove existing wall plate and switch mounting screws. Carefully pull switch from wall box, identify and take out the wires attached to the switch, then remove the switch.

DO NOT remove wires which are taken out from the switch at this time.(If new configuration is without this step)

Step 3

Identifying your wiring application

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

IMPORTANT: For 3-Way applications, note that one of the screw terminals from the old switch being removed will usually be a different color (Black) or labeled Common. Tag that wire with electrical tape and identify as the common (Line or Load) in both the dimmer wall box and 3-way wall box.

Step 4a Single-Pole Wiring Application:

- Connect the green dimmer wire to the green or bare copper ground wire in the wall-box, and twist them with P3 wire connectors.
- Connect the black dimmer wire to the hot input wire removed from the switch, and twist them with P3 wire connectors.
- Connect the red dimmer wire to the load wire removed from the switch, and twist them with P3 wire connectors.
- Connect the purple wire on the dimmer with the wire (0-10V D (+)) on the wall box, and screw on the wiring nut to fasten it.
- Connect the pink line on the dimmer with the line (0-10V D (-)) on the wall box, and screw on the wiring nut to fasten it.
- Use remaining P3 wire connectors to cap the remaining red and white wire on dimmer.

Step 4b 3-Way Wiring Application:

IMPORTANT: In a 3-way circuit, only one dimmer can be used

- Connect the green dimmer wire to the green or bare copper ground wire in the wall-box, and twist them with P3 wire connectors.
- Connect the black dimmer wire to the hot input wire with tag removed from the switch, and twist them with P3 wire connectors.
- Connect the red dimmer wire, red and white dimmer wire to the remaining 3-way switch's two wires removed from the switch, and twist them with P3 wire connectors.
- Connect the purple wire on the dimmer with the wire 0-10V D (+) on the wall box, and screw on the wiring nut to fasten it.
- Connect the pink line on the dimmer with the line 0-10V D (-) on the wall box, and screw on the wiring nut to fasten it.

Step 5 Installing and fixing the dimmer

- Carefully position all wires inside the wall-box, leaving enough room to insert the dimmer housing. Put the dimmer inside the wall-box.
- Mount the dimmer securely inside the wall-box using the provided mounting screws.

Step 6 Turn power on

- Turn power on at circuit breaker or replace the fuse. Try out your new dimmer.
- If you're satisfied with dimming range and light output of your bulbs, proceed to step 8.

NOTE:

0-10V dimming power supplies or lighting fixtures produced by different manufacturers have different dimming ranges. If your bulbs do not dim to your satisfaction, especially the dimmer range and minimum brightness level, adjust the adjustment button of the dimmer after installed can get desired lighting result (The product is designed with an adjustment button).

Detail see step 7.

Step 7 Testing

1. Move slide control lever D to 30-50% position, push rocker switch 2 on to make bulbs work. Move down slide control lever I to lowest light level.
2. Turn counter-clockwise(“-”) the adjustment button 3 to lowest desired brightness level where light output for all bulbs is stable and does not flicker or flash.
3. Push rocker switch 2 off and back on rocker switch 2 after 1s. Verify that all bulbs turn on and stable, do not flicker or flash.
4. If all or some bulbs do not turn on or do not satisfy to your minimum brightness level, turn clockwise(“+”) the adjustment button 3) slightly to make all bulbs work and repeat step 2 and 3.
5. After the above setting then can make the bulbs startup with the minimum brightness level when turn on dimmer and the dimmer with maximum dimming range.

Step 8 Installing wall plate**Step 8a Separated plate**

- Place the mounting frame I over your installed dimmer and secure it using provided screws 2.
- Cover the face plate 3) over the installed mounting frame 1 and gently push it to ensure flush fit.

Step 8b Integrated plate

- Place the face plate 1) over your installed dimmer and secure it using provided screws 2.

Troubleshooting**Documents / Resources**

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55159 LED Dimmer Switch, 55159, LED Dimmer Switch, Dimmer Switch, Switch

References

- [User Manual](#)

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