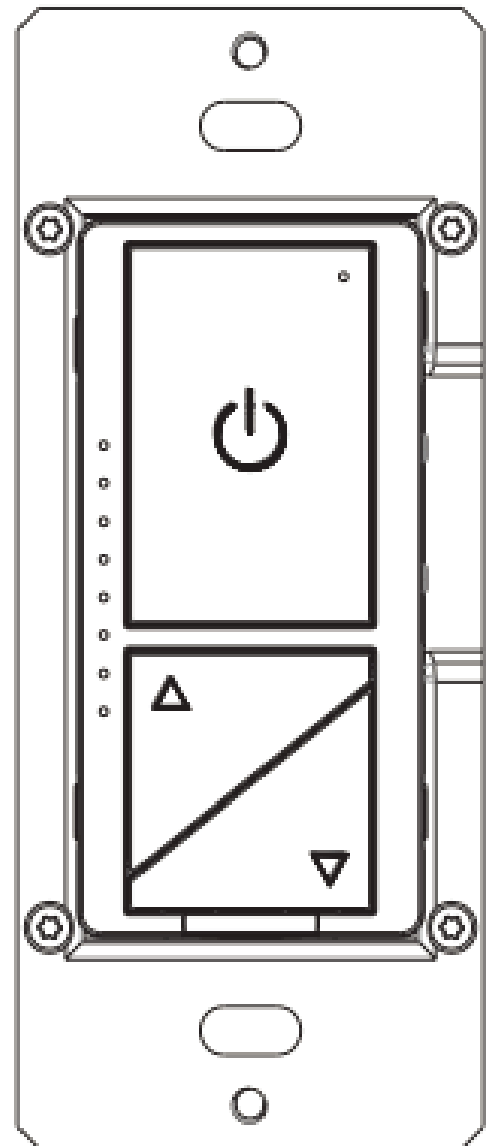


User Instructions

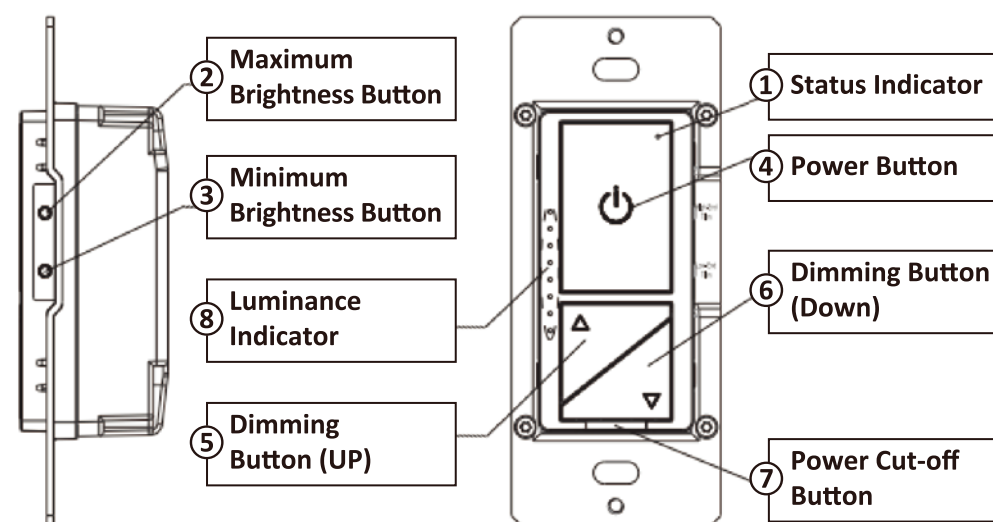


Model No.	USP-DS06M
Rated Voltage	120V
Rated Frequency	60Hz
Rated Wattage	600W
Load Range	Incandescent: 15W-600W
	LED/CFL: 3W-200W
Dimming Method	Phase-cut
Working Environment	Temperature: 0°C-40°C
	Humidity: 10%R.H.-90%R.H.
Model Size	105 mm×44 mm×31mm (L×W×H)

1. Warnings and Cautions

- 1.1 Risk of fire and electrical shock. The dimmer must be installed in accordance with appropriate electrical codes and regulations.
- 1.2 Turn power off at circuit breaker or fuse and test that power is off before installing.
- 1.3 After installation, it is recommended to set the minimum brightness level so all bulbs turn on immediately.
- 1.4 If you are unsure about any part of these instructions, consult a licensed electrician.
- 1.5 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 transformer-supplied appliance.
- 1.6 Use with compatible dimmable LED, CFL bulbs, Incandescent or halogen bulbs only.
- 1.7 When multiple bulbs are used with one dimmer DO NOT mix bulb types. All bulbs must be either LED, CFL or incandescent. Using the exact same model of each bulb will enhance dimmer performance.

2. Functional Specifications



① Status Indicator

- Indicator lights red: OFF status
- Indicator lights white: ON status

Quickly Press: Within 0.5s
 Press and Hold: Over 0.5s
 Continuous Quickly Press: Each interval of Continuous Quickly Press should within 1s

② Maximum Brightness Button Setting the maximum brightness:

There are six maximum brightness levels, quick pressing the maximum brightness button once can change the maximum brightness level.

③ Minimum Brightness Button Setting the minimum brightness:

There are six minimum brightness levels, quick pressing the minimum brightness button once can change the minimum brightness level.

④ Power Button

- Quickly press once to turn ON/OFF.
- Quickly press the power button six times to set the ideal minimum brightness.
- Quickly press the power button eight times to set the ideal maximum brightness.
- Continuous quick press ten times and the status indicator will flash three times to restore the factory default settings when at maximum brightness.

⑤ Dimming Button (UP)

- Quickly pressing the dimming button once will increase the brightness level.
- Press and Hold the dimming button will continuously increase the brightness until released or maximum brightness is achieved.
- Quickly press two times to instantly turn lights on to maximum brightness.

⑥ Dimming Button (Down)

- Quickly pressing the dimming button once can decrease a level of brightness.
- Press and Hold the dimming button will continuously decrease the brightness until released or minimum brightness is achieved.
- Quickly press two times to instantly turn lights on to minimum brightness.

⑦ Power Cut-off Button

- Pull out the power cut-off button to cut off power to the switch and light. Push back in to reconnect power.

3. Installation Tools

No.2 Philips Screwdriver	Multi Meter
Electrical Tape	Pliers
Wire Cutters	Ruler

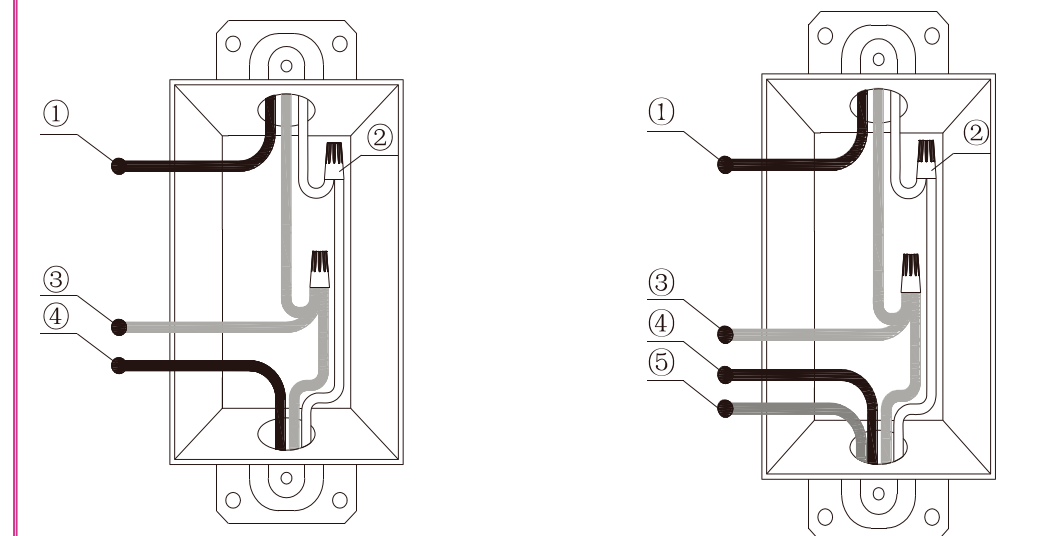
4. Installation

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

4.2 Remove the screws installed on the existing wall plate and switch, carefully pull out the switch from the wall box.

4.3 Identify and mark each wire attached to the switch. Do not remove the wires from the switch until they have been identified and marked. (This step is not required for new installations.)

4.4 Identify the type of wiring in the wall box, 3-way or single pole. Note: If the wires in the wall box are different from the following layouts, please consult an electrician.



Single Pole

- ① Line (Hot)
- ② Neutral
- ③ Ground
- ④ Load

3-Way

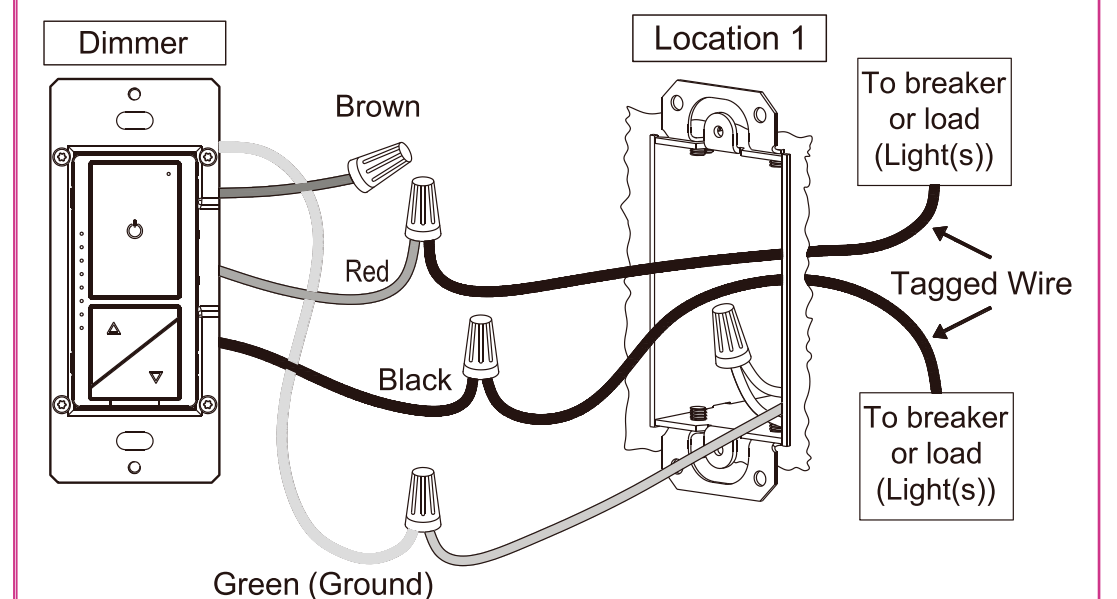
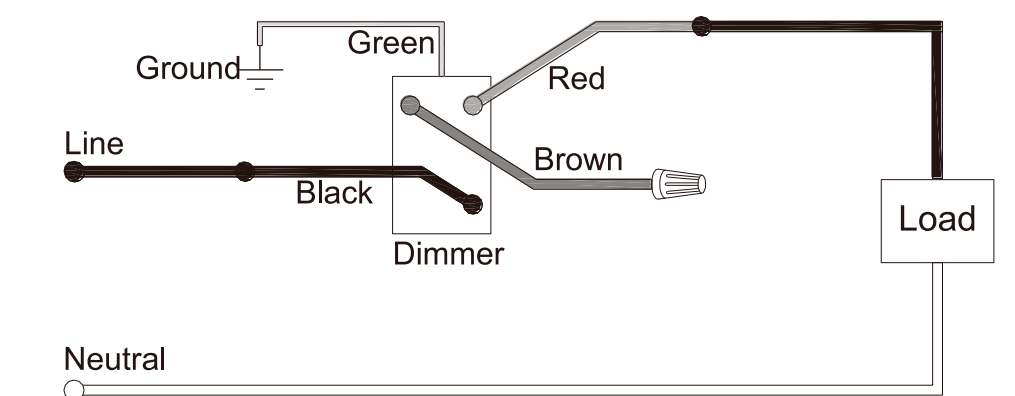
- ① Line or Load (See note below)
- ② Neutral
- ③ Ground
- ④ Traveler 1
- ⑤ Traveler 2

Important:

Please note that for 3-way applications, on the existing switches, there are 3 terminals. One of the terminals on each switch will be a different color than the other 2. This terminal will be connected to the line or load and can be marked Line/Load.

4.4 Typical wiring application

4a Single-Pole Connection style 1



- Connect the green wire on the dimmer to ground wire in the wall box, secure the connection with a wire nut.
- Connect the black wire on the dimmer to the wire labeled line, secure the connection with a wire nut.
- Connect the red wire on the dimmer to the wire labeled load, secure the connection with a wire nut.
- The remaining brown wire on the dimmer is not used in this application and must be capped with a wire nut.

IMPORTANT

In 3 way applications this dimmer is wired very differently than a standard 3 way switch or dimmer. The wiring for the non-dimmer 3-way switch will also need to be altered for the dimmer to work. Please follow the wiring diagrams very carefully. This dimmer will not work in a circuit where a 4-way switch is used. It is very important that you identify all wires in both the wall box that the dimmer will be installed and the other 3 way switch before installation.

WE HIGHLY RECOMMEND EMPLOYING THE SERVICES OF A TICKETED ELECTRICIAN

You will need to identify;

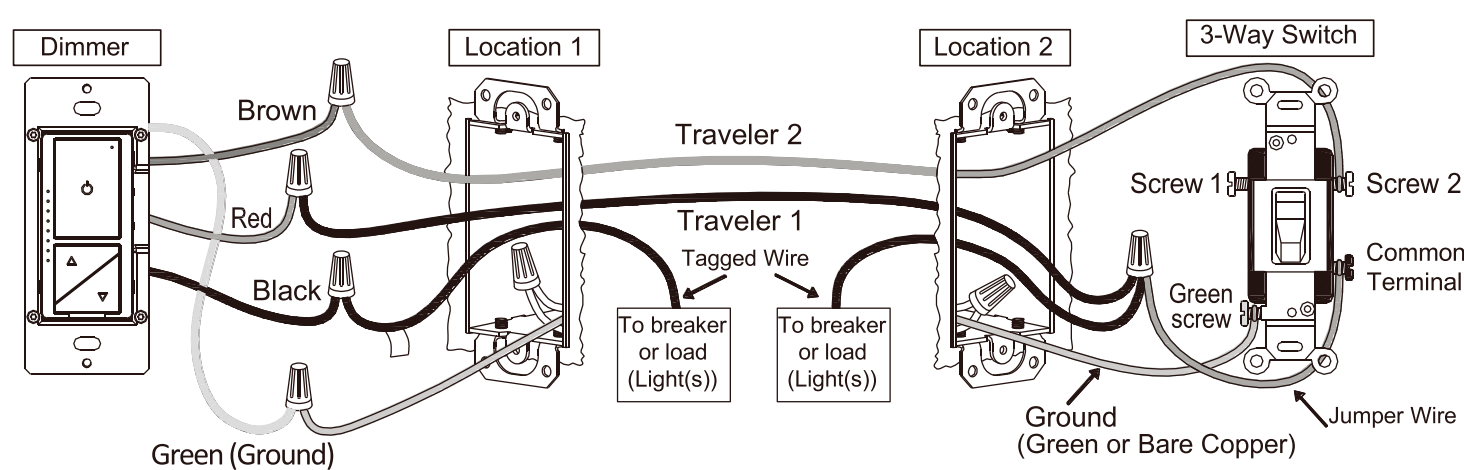
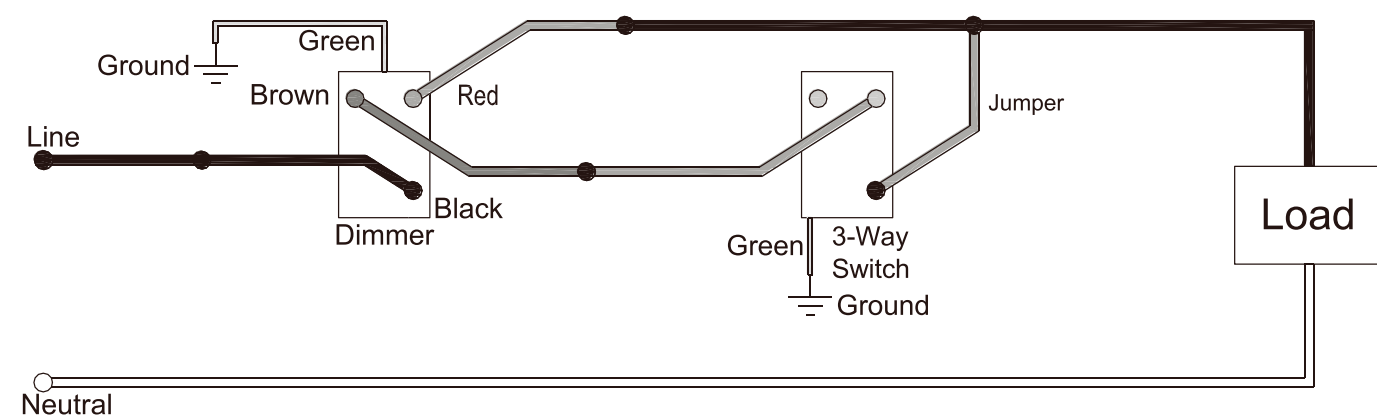
Traveler 1: There are 2 traveler wires that must be identified individually and they go between the wall box with the line and the wall box with the load. You must identify each traveler wire independently and ensure that it is the same wire in each box. Mark one as Traveler 1 in each wall box. Tip; To identify each traveler separately you can confirm the wire is the same in each wall box by temporarily connecting the end of one traveler wire to the ground wire in one wall box and checking with a meter for continuity between ground and the traveler in the other wall box. Mark this wire in both boxes. You can double check this by then disconnecting the ground wire and checking that there is no longer continuity between ground and the marked wire.

Traveler 2: Of the 2 traveler wires that go between the wall box with the line and the wall box with the load, you must identify the second traveler wire and mark it Traveler 2 in each wall box.

The LINE: This is the wire that has power coming in from the electrical panel. This wire will have power at all times regardless of switch positions.

The LOAD: This is the wire that goes from one switch to the lights. It will be in a different wall box than the LINE wire.

4b-1 3-Way (3-Way Switch) Connection style 2



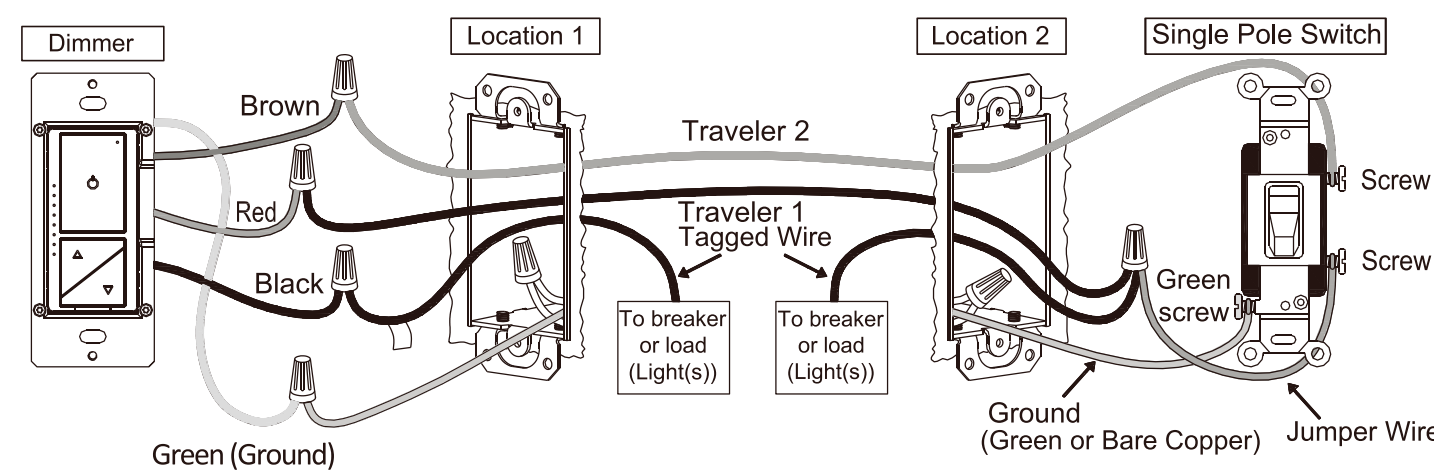
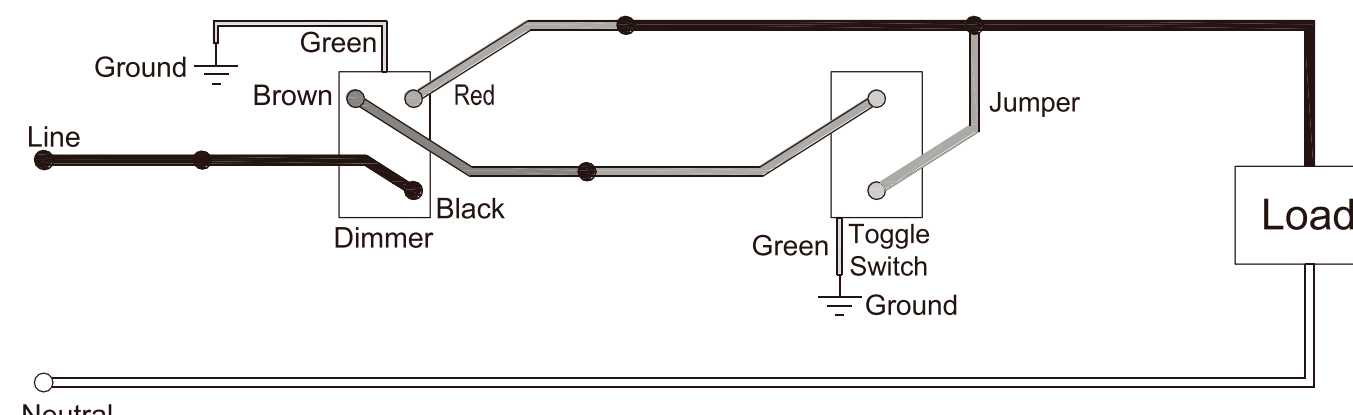
Location 1

- Connect the green wire on the dimmer to ground wire in the wall box, secure the connection with a wire nut.
- Connect the black power wire on the dimmer to the wire labeled line or load, secure the connection with a wire nut.
- Connect the brown wire on the dimmer to the Traveler 2 wire, secure the connection with a wire nut.
- Connect the red wire on the dimmer to the Traveler 1 wire, secure the connection with a wire nut.

Location 2

- Connect the Jumper wire together with the wires labeled Traveler 1, and the wire tagged Line or Load. Twist all 3 wires together and secure the connection with a wire nut. Connect the other end of the Jumper wire to the Common Terminal on the 3-way switch.
- Connect the wire labeled Traveler 2 to the terminal screw 1 or 2 on the 3-way switch.

4b-2 3-Way (Single Pole Switch) Connection style 3



Location 1

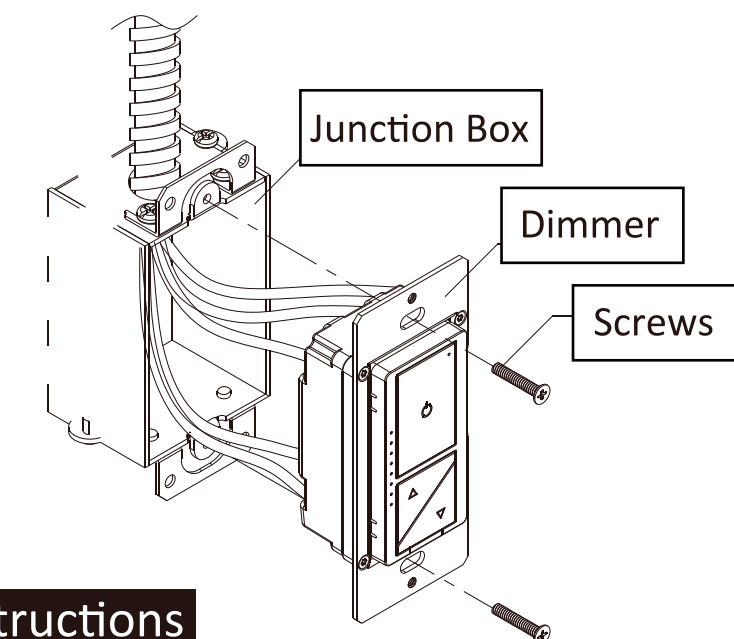
- Connect the green wire on the dimmer to ground wire in the wall box, secure the connection with a wire nut.
- Connect the black power wire on the dimmer to the wire labeled line or load, secure the connection with a wire nut.
- Connect the brown wire on the dimmer to the Traveler 2 wire on the 3-way switch, secure the connection with a wire nut.
- Connect the red wire on the dimmer to the Traveler 1 wire on the 3-way switch, secure the connection with a wire nut.

Location 2

- Connect the Jumper wire together with the wires labeled Traveler 1, and the wire tagged Line or Load. Twist all 3 wires together and secure the connection with a wire nut. Connect the other end of the Jumper wire to terminal Screw 1 on the Single Pole Switch.
- Connect the Traveler 2 wire to terminal Screw 2 on the Single Pole Switch.

4.5 Installing dimmer

- Carefully position all wires inside the junction box, leaving enough space to insert the dimmer.



5. User Instructions

Function	Dimmer Operation
ON/OFF	Quickly press the power button once
Dimming	Quickly press or hold the (Up or Down) dimming button
Quickly turn on to maximum brightness	Quickly press the Up dimming button twice or Quickly press the maximum brightness button once
Quickly turn on to minimum brightness	Quickly press the Down dimming button twice or Quickly press the minimum brightness button once
Setting the maximum brightness	Quickly press the power button 8 times
Setting the minimum brightness	Quickly press the power button 6 times
Restore factory Settings	Quickly press the power button 10 times

6. Troubleshooting

Problems	Possible Cause	Solution
Lights flickering	A bad connection	Check all wires and ensure bulbs are secure in their sockets.
	The dimmer been connected to multiple types bulbs, causing interference and flickering	Change bulbs to same type.
	The dimmer needs to be reset	Pull out the power cut-off button for a few seconds and push back in.
LED or CFL flickers at low end of dimming range	Minimum brightness is set too low	Turn up minimum brightness.
Lights won't turn on	Circuit breaker has tripped	Reset circuit breaker.
	Fuse has blown	Replace fuse with new one of same size.
	Light bulb has burnt out	Replace light bulb with correct type.
Lights not responding correctly to the dimmer	Neutral wire is not connected	Ensure neutral wire is connected to light and connected in the wall box.
	The dimmer needs to be reset	Pull out the power cut-off button for a few seconds and push back in.
Dimmer not working when connected to 3 way circuit	Incorrectly wired	Carefully double check that all wires are connected correctly according to the appropriate schematic.
	Bad wiring connection	Ensure all wires are securely fastened.
	Bad 3 way switch	Replace old 3 way switch with new 3-way or single pole switch.