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BESTTEN USP-LS02N-5PK

BESTTEN Dimmer Light Switch User Manual

Model: USP-LS02N-5PK | Brand: BESTTEN

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your BESTTEN Dimmer Light Switch. This dimmer switch is designed to provide smooth, full-range dimming for a variety of dimmable bulb types, enhancing the ambiance and functionality of your lighting.

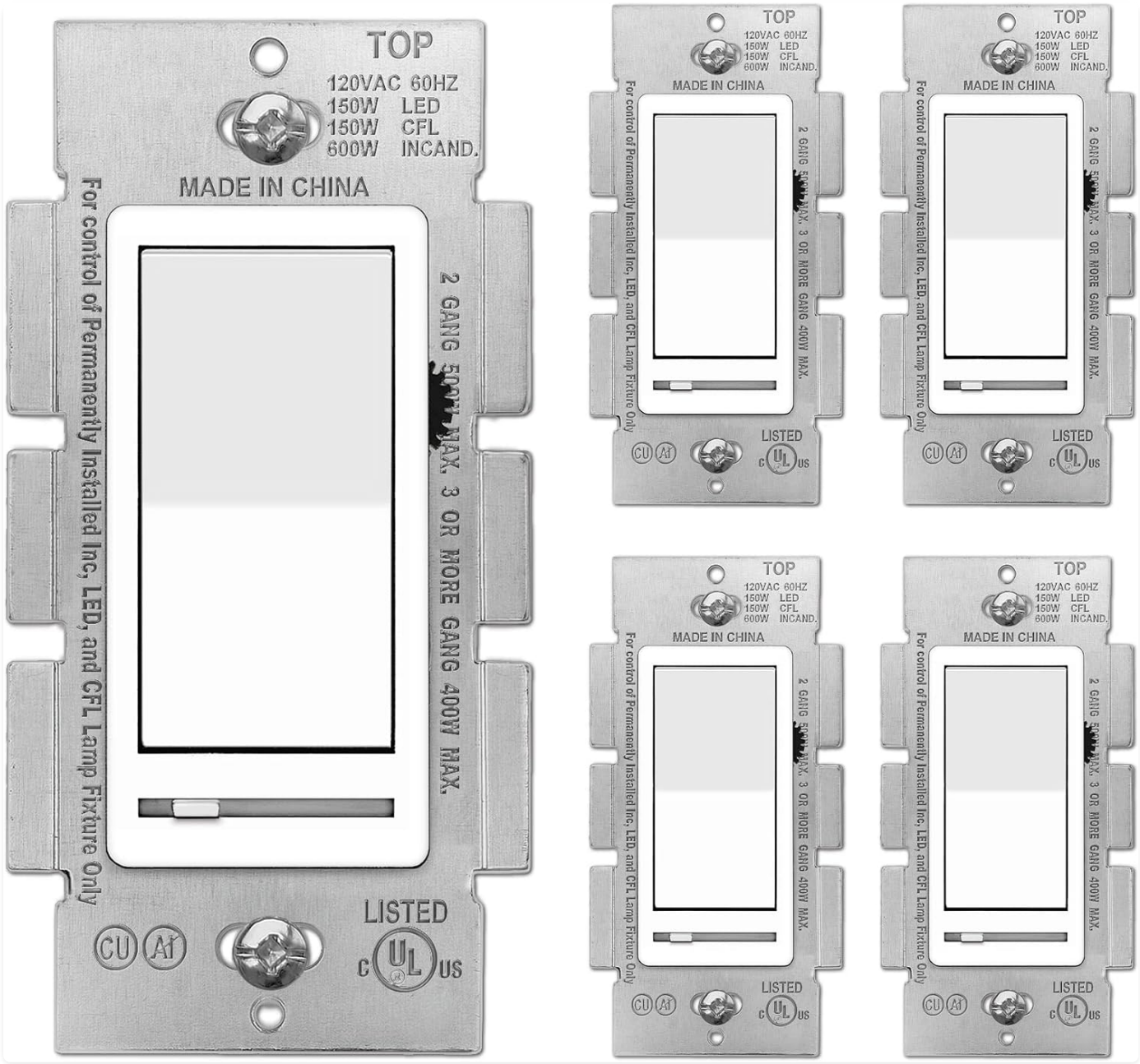


Image: A BESTTEN Dimmer Light Switch, showing its clean design and components.

Key Features

- **Universal Compatibility:** Compatible with dimmable LED, CFL, incandescent, and halogen bulbs.
- **Single-Pole or 3-Way Application:** Supports both single-pole and 3-way wiring configurations.
- **No Neutral Wire Required:** Ideal for older electrical systems.
- **Memory Function:** Remembers the last dimmed light setting.
- **Adjustable Dimming Range:** Features a sensitivity dial to eliminate flickering and optimize performance.
- **UL Listed:** Ensures safety and quality standards.



Image: Visual representation of key features including no neutral wire, modern rocker switch, fire resistance, and UL listing.

Compatibility

The BESTTEN dimmer switch is designed for broad compatibility with various dimmable lighting loads. Ensure your bulbs are dimmable before installation.

- **Dimmable LED/CFL:** Up to 150 Watts (Min. Load: 3W)
- **Incandescent/Halogen:** Up to 600 Watts

Most Compatible

Full-range dimming performance for dimmable LED, CFL, halogen and incandescent bulbs



Image: Chart illustrating compatibility with Incandescent (600W), Dimmable CFL (150W), and Dimmable LED (150W) bulbs.

Universal Compatibility

Works perfectly with 1000+ dimmable LED, CFL and incandescent bulbs.





Image: Examples of various light fixtures (chandeliers, pendant lights) compatible with the dimmer switch.

Installation Instructions

Safety Precautions

- **WARNING:** To avoid fire, shock, or death, turn off power at the circuit breaker or fuse box and test that power is off before wiring.
- Install in accordance with all national and local electrical codes and regulations.
- Use only one dimmer switch in a 3-way circuit.
- Do not use with non-dimmable bulbs or fixtures.

Wiring Applications

The BESTTEN dimmer switch supports both single-pole (one location) and 3-way (two locations) wiring. Follow the diagrams carefully.

Single-Pole Wiring



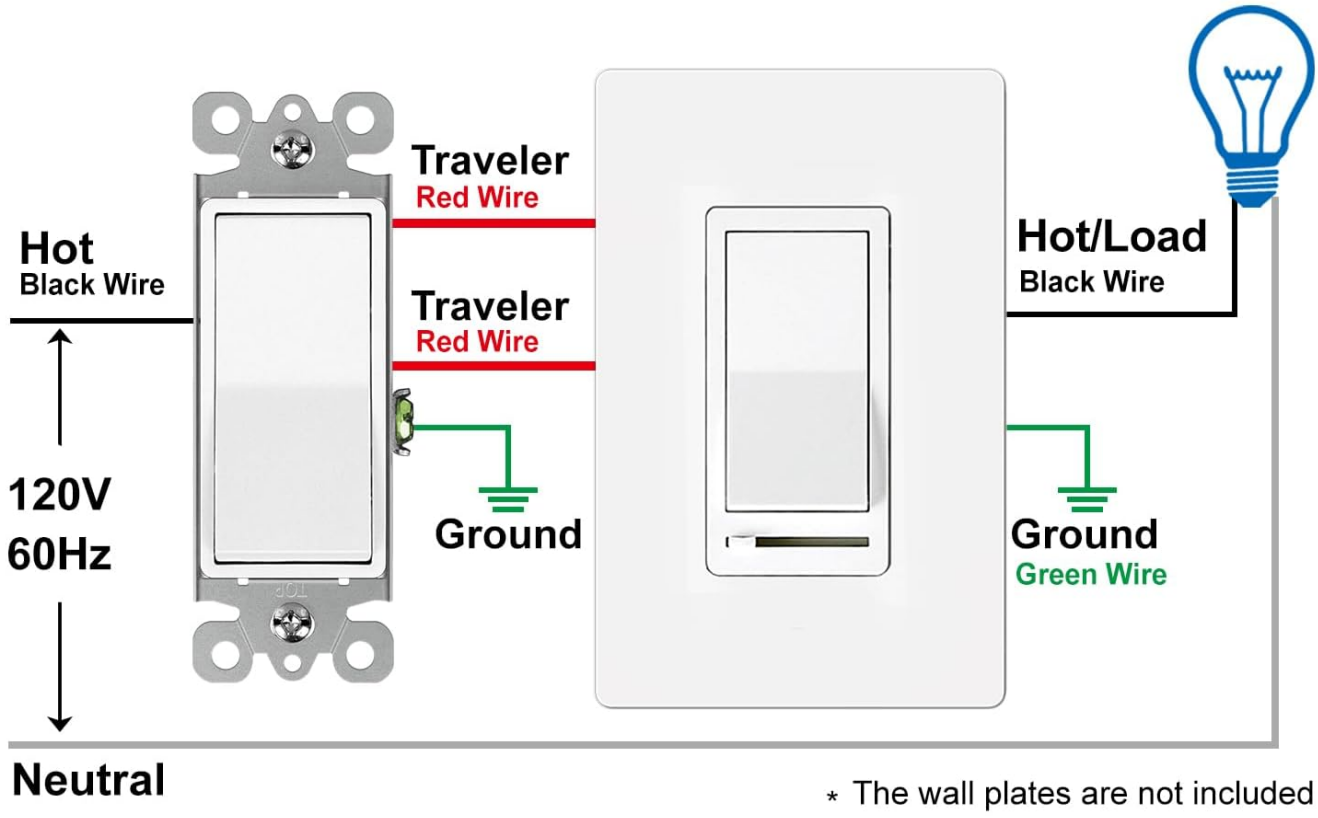
Image: Diagram showing single-pole wiring for the dimmer switch, connecting Hot, Load, and Ground wires.

3-Way Wiring

For 3-way applications, only one dimmer switch can be installed. The remaining switch should be a standard ON/OFF switch.

3-Way Wiring Instruction

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How to change from a standard 3-Way switch

When you pull switch from the wall box, take a picture of the location of the wires on the old switch with phone for future reference. Take note that 2 of the terminals on the switch are the same color. The wires connected to these terminals will be connected to the 2 red wires on your new dimmer. Mark these wires with a piece of tape. The wire on the third terminal will be your line or load and will be connected to the black wire on your new dimmer. There may also be a green or bare copper wire attached to your old switch. This is the ground wire and will be connected to the green wire on your new dimmer.

Image: Detailed diagram for 3-way wiring, showing connections for Hot, Load, Traveler, and Ground wires between two switches.



Image: Simplified 3-way wiring diagram, highlighting traveler and load connections.

This dimmer switch does not require a neutral wire, making it suitable for installations in older homes where neutral wires may not be present in the switch box.



Image: Illustration emphasizing the "No Neutral Wire Required" feature, showing a house with older electrical wiring.

Dimming Range Setting (Flicker Elimination)

To optimize dimming performance and eliminate flickering, adjust the sensitivity dial located behind the wall plate.

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Video: Demonstrates how to adjust the dimming range setting to prevent flickering.

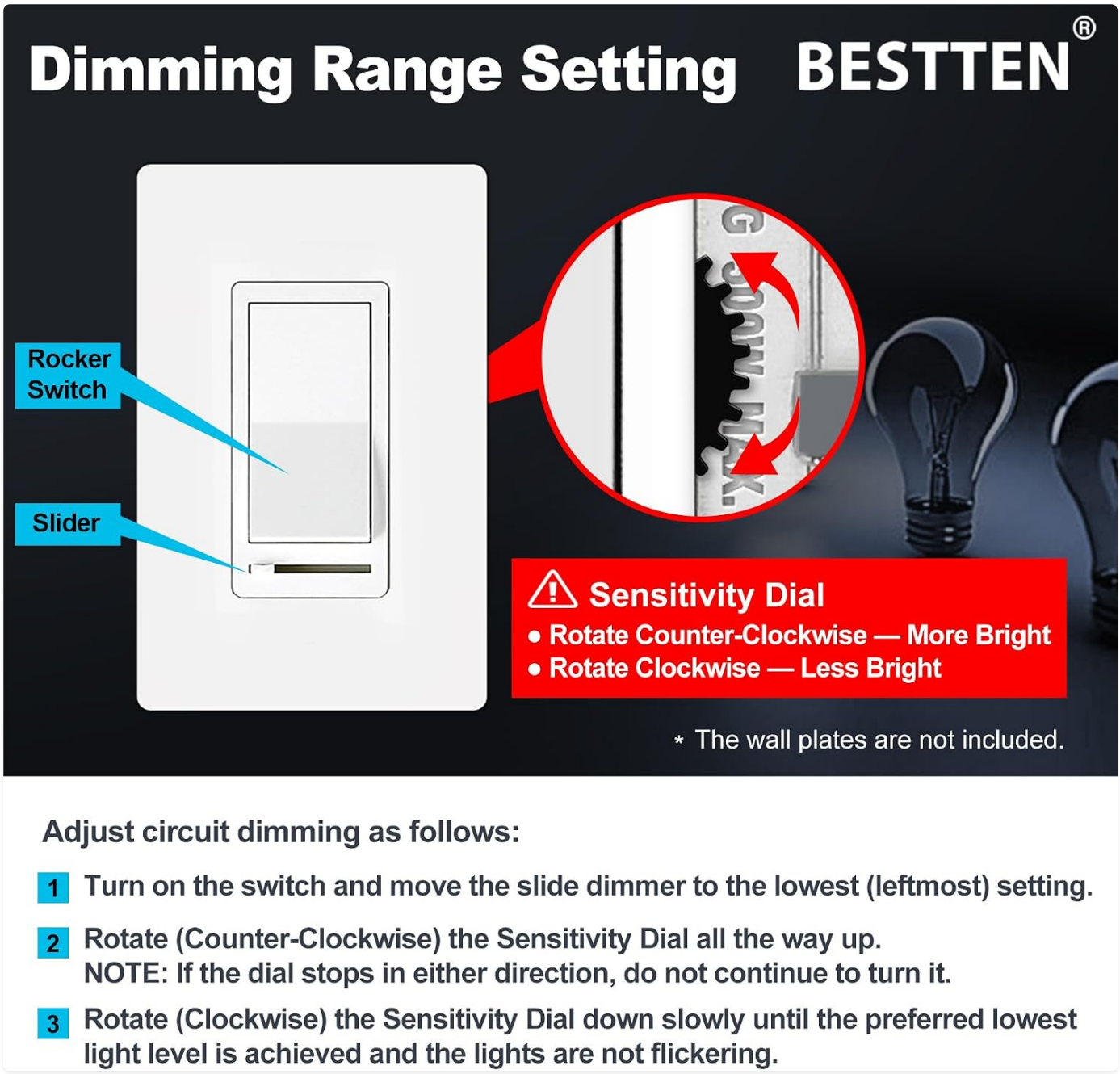


Image: Close-up diagram showing the location of the sensitivity dial and instructions for adjusting brightness (counter-clockwise for brighter, clockwise

for less bright).

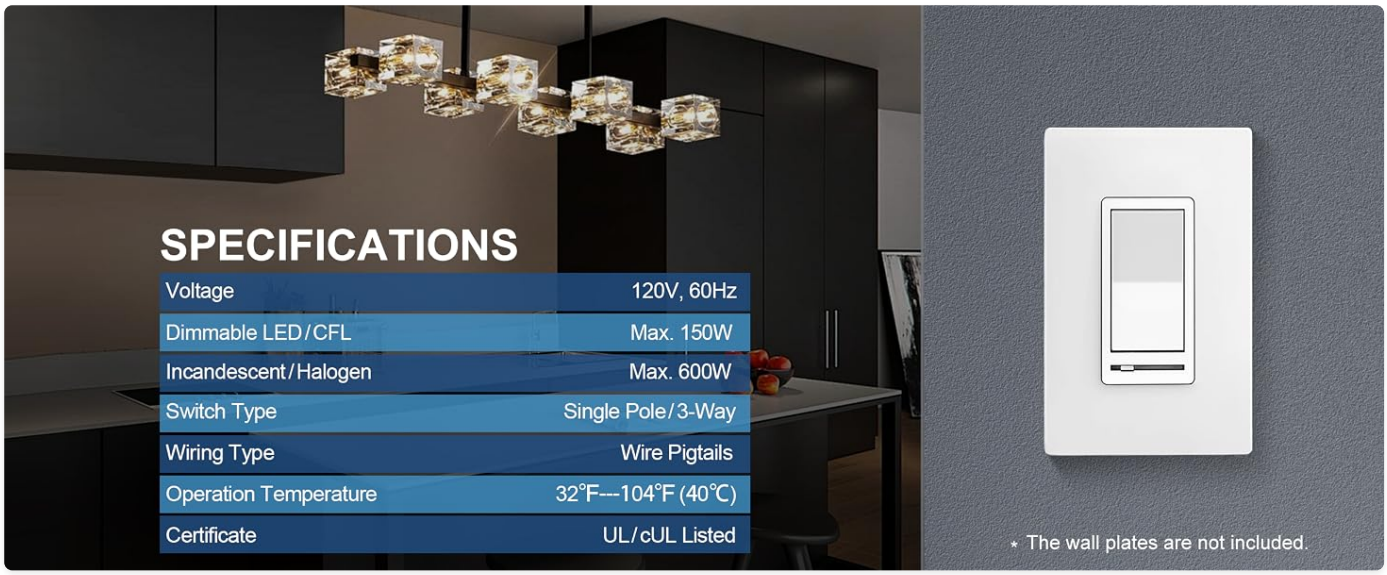


Image: Step-by-step visual guide for adjusting the dimming range, including turning the switch on, moving the slider, and rotating the sensitivity dial.

Steps for Adjustment:

1. Turn on the switch and move the slide dimmer to the lowest (leftmost) setting.
2. Rotate (counter-clockwise) the Sensitivity Dial all the way up. *NOTE: If the dial stops in either direction, do not continue to turn it.*
3. Rotate (clockwise) the Sensitivity Dial down slowly until the preferred lowest light level is achieved and the lights are not flickering.

Physical Dimensions



Image: Diagram showing the dimensions of the dimmer switch (2.12 x 4.13 x 1.33 inches) and recommended electrical box depth (at least 2 inches).

Operation

The BESTTEN dimmer switch features a simple and intuitive design for controlling your lighting.

- **On/Off Control:** Use the large rocker switch to turn the lights ON or OFF.
- **Dimming Control:** Use the small horizontal slider to adjust the brightness level. Slide up to brighten, and slide down to dim.
- **Memory Function:** The switch will remember your last dimmed setting and turn on to that exact light level.



Image: Examples of different brightness levels (10%, 50%, 90%) suitable for various activities like sleeping, relaxing, or working.



Image: A hand operating the dimmer switch, demonstrating the ease of adjusting light levels.

Maintenance

To maintain the appearance and functionality of your dimmer switch:

- Clean with a soft, damp cloth only. Do not use any chemical cleaners or abrasives.
- Ensure the switch is free from dust and debris to prevent interference with the slider mechanism.

Troubleshooting

If you experience issues with your dimmer switch, consider the following:

- **Flickering, Hum, or Buzz:**
  - Ensure your bulbs are dimmable and compatible with this dimmer switch.
  - Adjust the sensitivity dial (refer to "Dimming Range Setting" section) to find the optimal setting for your bulbs.
  - Use high-quality, brand-name bulbs and fixtures for best compatibility.
- **Lights Not Turning On/Off:**
  - Verify that power is supplied to the circuit at the breaker.
  - Check all wiring connections for secure contact.
- **Dimmer Not Responding:**
  - Ensure the switch is correctly wired for single-pole or 3-way application.
  - Confirm that only one dimmer switch is used in a 3-way circuit.

Eliminate Flickering

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Note:
If your bulbs do not dim to your satisfaction, hum, buzz or flicker, they may not be compatible with this dimmer.

For the best compatibility with dimmer and to minimize flickering issues, please use high quality, brand name bulbs and fixtures.

Please see user manual for dimming range adjustment.



Image: A note advising to adjust the side adjustment wheel to eliminate flicker issues and to use high-quality bulbs for best results.

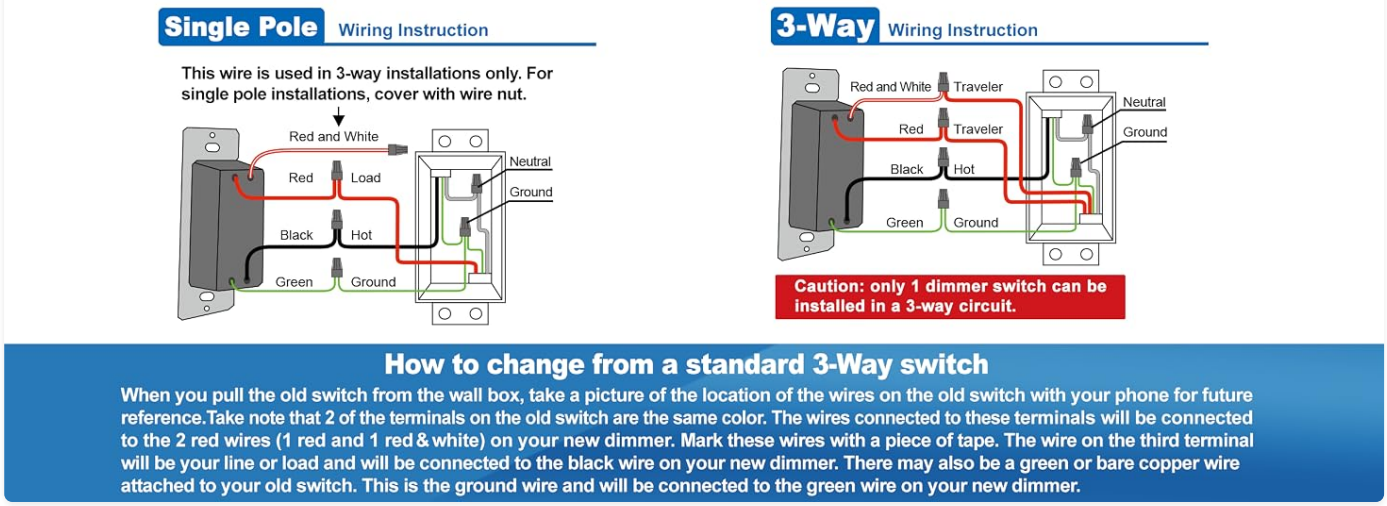


Image: Visual guide for troubleshooting flickering, emphasizing the importance of bulb compatibility and dimming range adjustment.

Specifications

Attribute	Value
Model Number	USP-LS02N-5PK
Operating Voltage	120 Volts (AC)
Current Rating	5 Amps
Wattage (Incandescent/Halogen)	600 Watts
Wattage (Dimmable LED/CFL)	150 Watts
Switch Type	Single Pole / 3-Way
Wiring Type	Wire Pigtails
Operation Mode	ON-OFF-ON
Operating Temperature	32°F – 104°F (0°C – 40°C)
Dimensions (L x W x H)	2.12 x 4.13 x 1.33 inches
Item Weight	1.41 pounds
Certifications	UL Listed



Image: A visual table summarizing the key specifications of the dimmer switch.

Warranty and Support

Warranty: This BESTTEN dimmer switch comes with a 3-year warranty.
For further assistance or detailed wiring diagrams, please refer to the official user manual PDF:

Download User Manual (PDF)

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