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## Sunlite 41906-SU

# Sunlite LED Dimmer Switch User Manual

Model: 41906-SU

## INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Sunlite LED Dimmer Switch. Designed for both residential and commercial applications, this dimmer switch offers precise control over various lighting types, including dimmable LED, CFL, incandescent, and halogen bulbs. Please read this manual thoroughly before installation and use to ensure safe and proper operation.

## SAFETY INFORMATION

**WARNING: RISK OF ELECTRIC SHOCK. Improper installation can lead to serious injury or death. Always turn off power at the circuit breaker before installation or servicing.**

- Ensure power is disconnected at the circuit breaker before beginning any electrical work.
- Installation should be performed by a qualified electrician if you are unsure about any steps.
- Do not use with non-dimmable bulbs.
- This device is intended for indoor use only.
- Adhere to all local and national electrical codes.

## PACKAGE CONTENTS

Verify that all components are present before installation:

- Sunlite LED Dimmer Switch (Quantity: 4)
- White Wallplate (Quantity: 4)
- Installation Hardware (Screws)

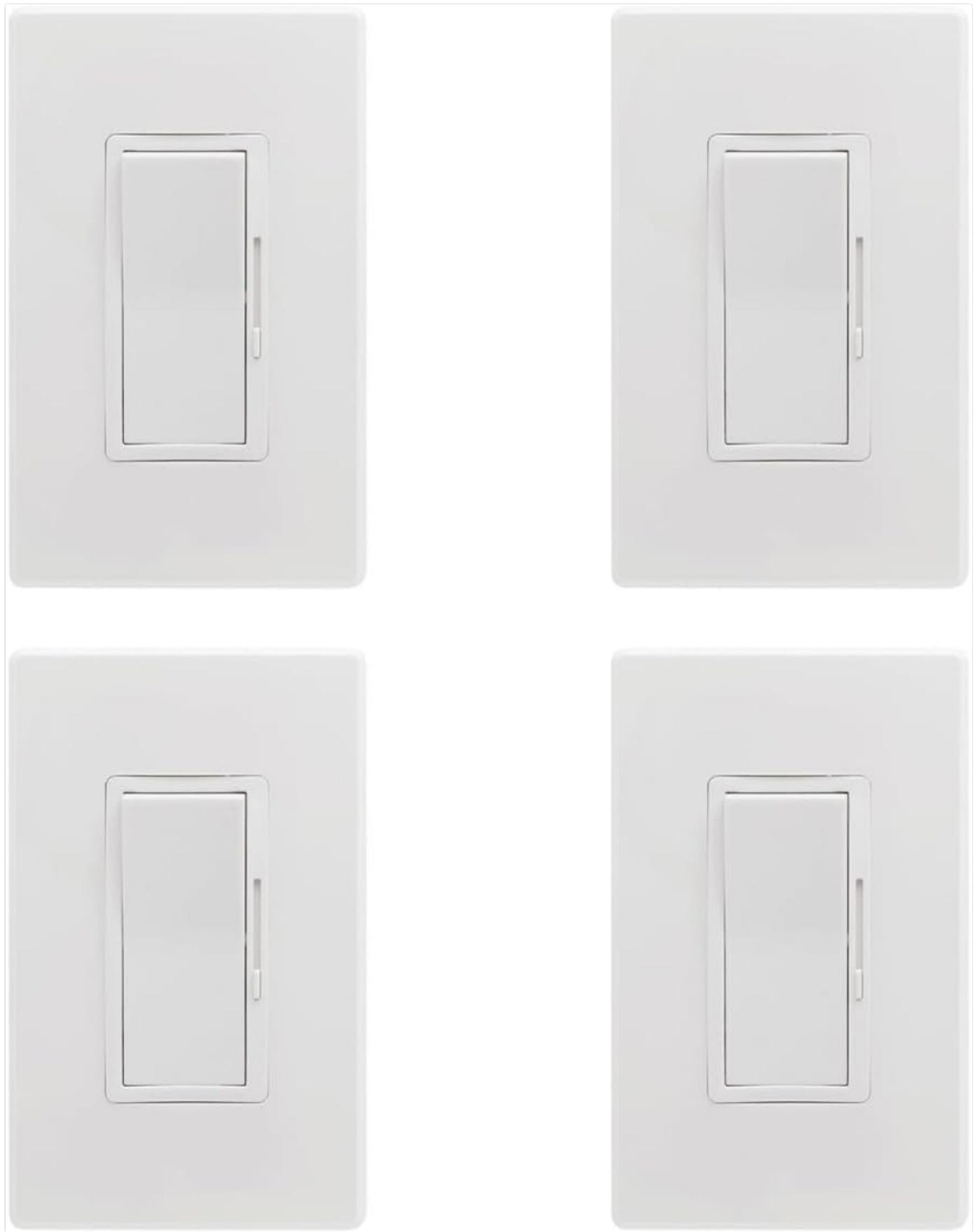


Image: Four Sunlite LED Dimmer Switches, each with a white wallplate, arranged in a 2x2 grid. This illustrates the typical package contents for the 4-pack.

## PRODUCT OVERVIEW AND DIMENSIONS

The Sunlite LED Dimmer Switch features a sleek design with a large rocker switch for ON/OFF control and a sliding bar for dimming. It is designed for easy integration into standard electrical boxes.

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## Wall Rocker Style, Slide Bar Dimmer Switch, and Screwless Wall Plates included

Image: A technical diagram illustrating the dimensions of the Sunlite LED Dimmer Switch and its accompanying screwless wall plate. Key measurements are provided in inches: switch body (1.70 in width, 4.10 in height, 0.90 in depth) and wall plate (2.90 in width, 4.70 in height).



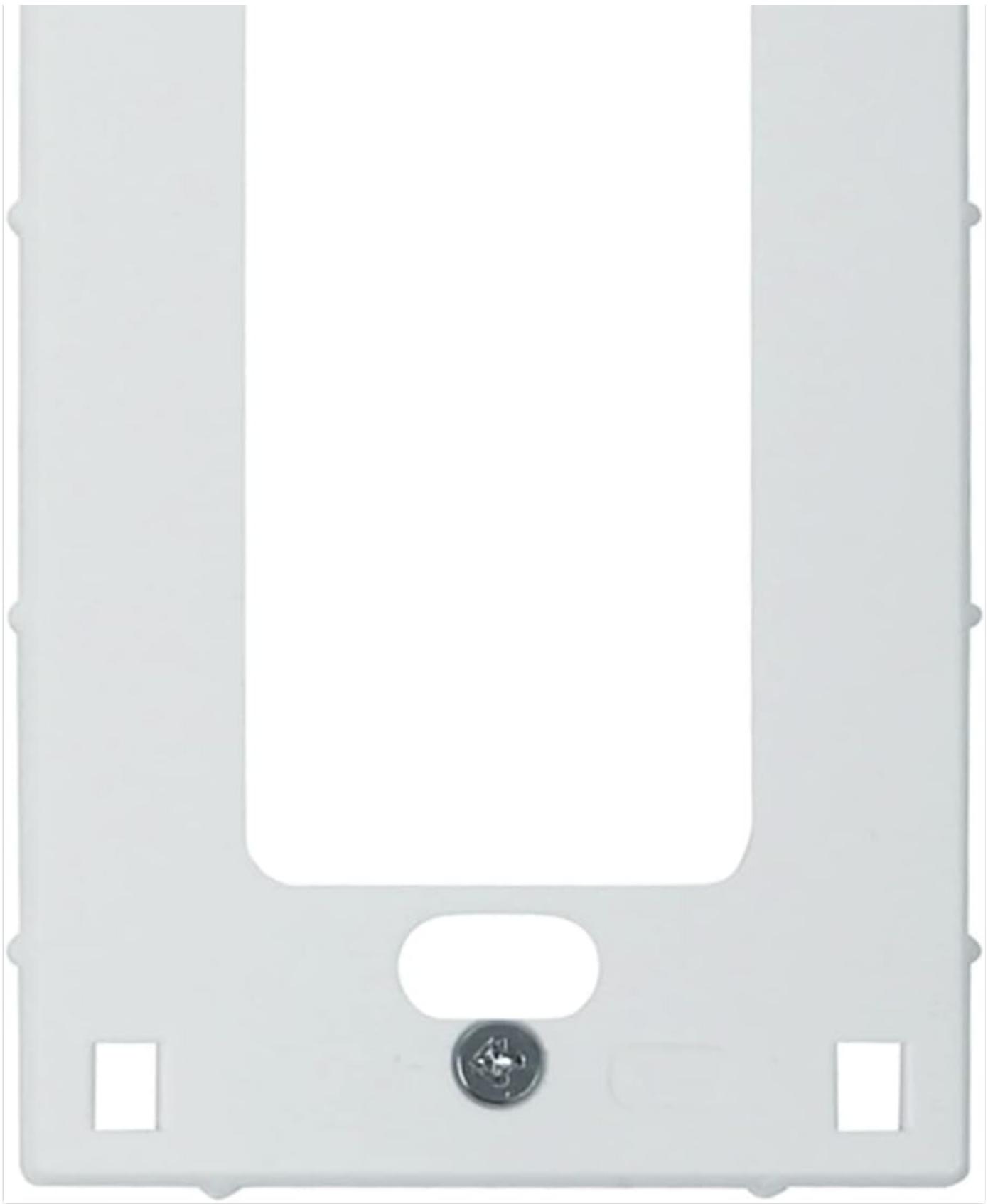


Image: Close-up view of the Sunlite LED Dimmer Switch module without the wallplate, showing the rocker switch and the side-mounted slide dimmer control.





Image: A standalone white screwless wallplate, designed to cover the dimmer switch once installed, providing a clean and modern finish.

## SPECIFICATIONS

Feature	Specification
Operation Mode	OFF-NONE-ON
Current Rating	5 Amps
Operating Voltage	120-277 Volts
Contact Type	Normally Open
Connector Type	Clamp
Terminal	Screw
Item Dimensions (L x W x H)	1.14 x 2.9 x 4.71 inches
Circuit Type	3-way
Actuator Type	Rocker
Contact Material	Metal
International Protection Rating	IP65
Number of Positions	2
Upper Temperature Rating	104 Degrees Fahrenheit
Control Method	Touch
Connectivity Protocol	X-10
Color	White
Wattage (Max Load)	600 watts (Incandescent), 200 watts (LED)
Minimum Load	3W (LED), 15W (Incandescent)
Frequency	60 Hz
Style	Modern
Manufacturer	Sunshine Lighting



## White LED Wall Rocker Style Dimmer Switch



**600-Watt Max**



**Multi-Volt Wall Plate**



**Single Pole or 3-Way Switching**



**Low Voltage Dimming (0-10V)**



### Sliding Dimming Control Bar

Image: Visual summary of key features including 600-Watt Max load, 120-277 Multi-Volt compatibility, Single Pole or 3-Way switching, and 0-10V Low Voltage Dimming.

## SETUP AND INSTALLATION

The Sunlite LED Dimmer Switch is designed for easy installation in standard switch boxes. It supports both single pole and 3-way switching configurations.

### Before You Begin:

1. Turn OFF power at the circuit breaker or fuse box for the circuit you are working on.
2. Confirm power is off by testing the existing switch or outlet with a voltage tester.
3. Gather necessary tools: screwdriver, wire strippers, electrical tape, voltage tester.

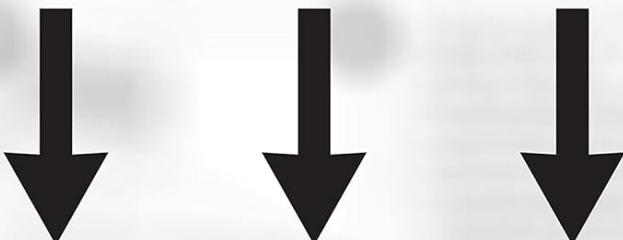
### Installation Steps:

1. Remove the existing wall plate and switch from the electrical box.
2. Carefully disconnect the wires from the old switch. Note which wire is connected to which terminal (e.g., Line, Load, Traveler, Ground).
3. Connect the wires to the new Sunlite dimmer switch according to the wiring diagram for your specific setup (single pole or 3-way). Refer to the official installation manual for detailed wiring diagrams.
4. Secure the dimmer switch into the electrical box using the provided screws.
5. Attach the screwless wall plate.
6. Restore power at the circuit breaker.
7. Test the dimmer switch to ensure proper operation.



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# Check Product Guides and Documents Below for Installation Instructions



## Product guides and documents

[Product Documentation \(PDF\)](#)

Image: A Sunlite dimmer switch installed in a wall, illustrating its compatibility with both single pole and 3-way wiring configurations.

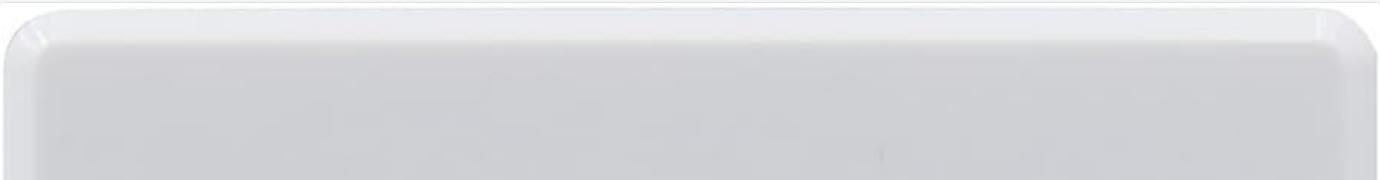




Image: A graphic encouraging users to consult the product guides and documents for detailed installation instructions, with arrows pointing downwards to where such resources would typically be found.

For detailed wiring diagrams and complete installation instructions, please refer to the official Installation Manual (PDF):  
[Download Installation Manual](#)

## OPERATING INSTRUCTIONS

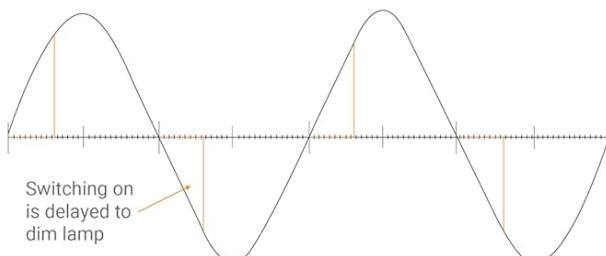
The Sunlite LED Dimmer Switch is designed for intuitive operation:

- **ON/OFF Control:** Press the large rocker switch to turn the lights ON or OFF.
- **Dimming Control:** Use the small sliding bar on the side of the rocker switch to adjust the light intensity. Slide up to increase brightness and down to decrease brightness.
- The 0-10V dimming control ensures smooth and precise adjustment of light levels.



Image: A Sunlite dimmer switch installed in a room, emphasizing its LED dimming control feature. The accompanying text explains that the sliding bar (0-10V) provides smooth, precise control for various dimmable bulb types.

## TRIAC DIMMERS



- Uses a high-speed switch to adjust the amount of electricity passing through the bulb/fixture.
- A trigger dictates what point the device starts to conduct the electricity, meaning that the lights can be dimmed while reducing the amount of power sent them, making this type of dimmer more efficient than standard dimmers.
- This dimmer only needs two wires to install, making it easier to install at any time and to existing devices. Dimming is done on the input power wires.
- Although easy and inexpensive to install, there's a potential sacrifice to dimming quality.

## 0-10 VOLT DIMMERS

- A more controlled dimming option with 0 volts meaning off and 10 volts being the brightest.
- Requires separate low-voltage wires to run throughout a space for each component.
- It can connect to any fixture and integrates easiest with other controls, such as sensors.
- It is a reliable LED dimming control protocol and is used mainly in commercial spaces.



Image: An informational graphic comparing TRIAC dimmers and 0-10 Volt dimmers. It explains that 0-10V dimmers offer more controlled dimming, require separate low-voltage wires, and are commonly used in commercial spaces, with a visual representation of light levels from 0V (OFF) to 10V (100%).

## MAINTENANCE

The Sunlite LED Dimmer Switch requires minimal maintenance:

- **Cleaning:** To clean the switch and wall plate, wipe with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure power is off before cleaning.
- **Inspection:** Periodically check the switch for any signs of damage or loose connections. If any issues are found, turn off power at the breaker and consult a qualified electrician.

## TROUBLESHOOTING

If you encounter issues with your Sunlite LED Dimmer Switch, try the following solutions:

Problem	Possible Cause	Solution
Lights do not turn ON.	No power to the switch; loose wiring; faulty bulb; circuit breaker tripped.	Check circuit breaker. Ensure all wire connections are secure. Test bulb in another fixture.
Lights do not dim or flicker.	Non-dimmable bulbs; incompatible bulb type; minimum load not met; loose wiring.	Ensure bulbs are dimmable LED, CFL, incandescent, or halogen. Verify total wattage meets minimum load (3W LED / 15W Incandescent). Check wiring connections.
Dimmer switch is hot to the touch.	Overload; improper installation.	Ensure total wattage of connected bulbs does not exceed maximum load (200W LED / 600W Incandescent). Turn off power and re-check wiring. If problem persists, consult an electrician.
Switch does not fit in electrical box.	Box is too shallow or full of wires.	Ensure proper box depth. Consult an electrician if the box is too crowded.

## WARRANTY AND SUPPORT

Sunlite products are designed for reliability and performance. This dimmer switch comes with a 1-year warranty from the date of purchase, covering defects in materials and workmanship.

For warranty claims or technical support, please contact Sunlite customer service. Keep your proof of purchase for warranty validation.

For additional information or assistance, visit the official Sunlite Store:[Sunlite Store on Amazon](#)

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Product Model: 41906-SU