Manuals+

Q & A | Deep Search | Upload

manuals.plus /

- > ENERLITES /
- > ENERLITES 51300L-W Low Voltage Slide Dimmer Decorator Switch Instruction Manual

ENERLITES 51300L-W

ENERLITES 51300L-W Low Voltage Slide Dimmer Decorator Switch Instruction Manual

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the ENERLITES 51300L-W Low Voltage Slide Dimmer Decorator Switch. This device is designed to control 0-10V dimmable LED lights, LED drivers, LED fixtures, and fluorescent ballasts. It features an on/off rocker switch and a linear dimming slider for precise light level adjustment.





Image 1.1: Front view of the ENERLITES 51300L-W Low Voltage Slide Dimmer Decorator Switch.

The 51300L-W dimmer is suitable for both single-pole and 3-way applications, offering flexibility in various lighting setups. Its low-voltage design ensures compatibility with modern energy-efficient lighting systems.

2. SAFETY INFORMATION

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. Installation should be performed by a qualified electrician in accordance with all local and national electrical codes.

- Do not use with standard (120V) incandescent or halogen lighting. This dimmer is for 0-10V low voltage systems only.
- Ensure all wire connections are secure.
- Do not exceed the maximum electrical ratings of the device.
- For indoor use only.

3. PACKAGE CONTENTS

- ENERLITES 51300L-W Low Voltage Slide Dimmer Decorator Switch
- Mounting Screws
- Installation Instructions (this manual)

4. Specifications

Feature	Specification
Model Number	51300L-W
Operation Mode	Off, Paddle, Slide Dimmer
Current Rating	3 Amps
Operating Voltage	120-277VAC
Dimming Output	0-10V DC, 30mA
Circuit Type	Single-Pole or 3-Way
Compatible Devices	Low voltage LED lights, LED drivers, LED fixtures, fluorescent ballasts
Certifications	UL Listed
Dimensions (L x W x H)	5.1 x 5.8 x 11.4 inches (approximate)
Item Weight	3.52 ounces
Color	White

5. Installation

5.1 Wiring Diagram

Before beginning installation, ensure power is turned off at the circuit breaker. The 51300L-W dimmer requires specific wiring for 0-10V systems. Refer to the diagram below for proper connections.

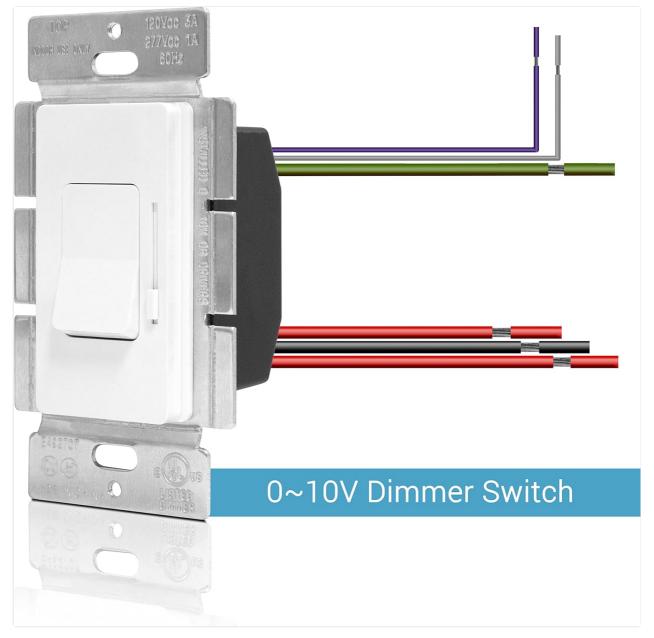


Image 5.1: Wiring connections for the 0-10V Dimmer Switch. This diagram illustrates the typical wiring for a 0-10V dimmer, including line, load, neutral, and 0-10V control wires.

5.2 Installation Steps

- 1. **Turn Off Power:** Locate the circuit breaker controlling the light fixture and turn it off. Verify power is off using a voltage tester.
- 2. **Remove Existing Switch:** Carefully remove the wall plate and unscrew the existing switch from the wall box. Disconnect the wires.
- 3. **Wire the Dimmer:** Connect the wires from the wall box to the dimmer according to the wiring diagram (Image 5.1). Ensure all connections are tight and secure. The 0-10V dimmer controls the driver or ballast of your lighting fixture.
- 4. **Mount the Dimmer:** Gently push the wired dimmer into the wall box and secure it with the provided screws.
- 5. Install Wall Plate: Attach the decorator wall plate (not included) over the dimmer.
- 6. Restore Power: Turn the power back on at the circuit breaker.

5.3 3-Way Application

The 51300L-W dimmer supports 3-way applications, allowing control of a single light fixture from two different locations. Consult a qualified electrician for proper 3-way wiring configurations.



Image 5.2: Example of a 3-way application with the ENERLITES dimmer, showing control from two locations.

6. OPERATION

6.1 On/Off Control

The large rocker switch on the dimmer controls the on/off function of the lights. Press the top of the rocker to turn lights on, and the bottom to turn lights off. The dimmer will remember the last set dimming level when turned off and on.

6.2 Dimming Control

Use the vertical slide bar next to the rocker switch to adjust the brightness level. Slide the control up for brighter light and down for dimmer light. This linear dimming slider provides smooth adjustment.

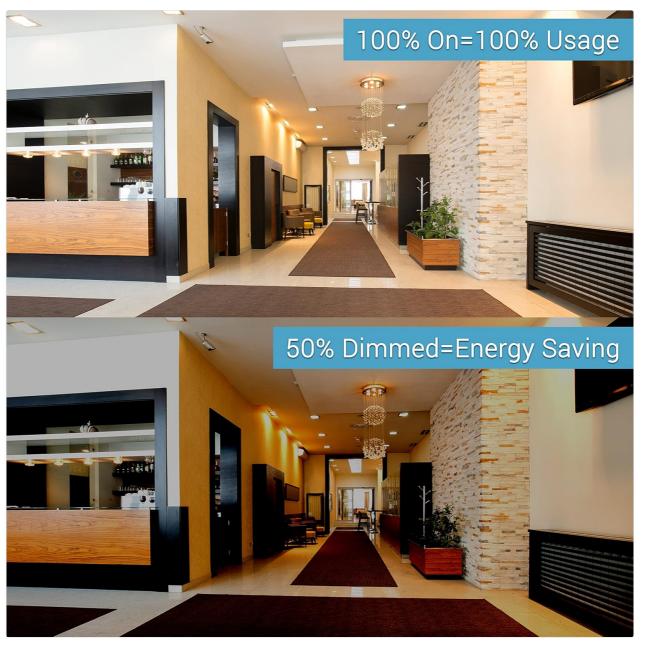


Image 6.1: Visual comparison of lights at 100% brightness versus 50% dimmed, demonstrating the dimmer's effect.

6.3 Dimming Range Adjustment (Trim-Pot)

The dimmer features an adjustment wheel (trim-pot) located on the left side. This allows you to fine-tune the dimming range to optimize performance with your specific LED light bulbs or fixtures. Adjusting the trim-pot can help eliminate flickering at low dimming levels and maximize the overall dimming range.



Image 6.2: Close-up view of the dimmer, highlighting the trim-pot adjustment wheel for fine-tuning the dimming range.

To adjust: Use a small screwdriver to turn the trim-pot wheel. Turn it clockwise to increase the minimum brightness level or counter-clockwise to decrease it, until desired performance is achieved without flickering.

7. MAINTENANCE

The ENERLITES 51300L-W dimmer requires minimal maintenance. To clean the device, gently wipe the surface with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these may damage the finish or internal components. Ensure power is off before cleaning.

8. TROUBLESHOOTING

- **Lights are flickering at low dimming levels:** Adjust the trim-pot wheel on the side of the dimmer (refer to Section 6.3) to set a higher minimum brightness level.
- Lights do not dim or turn on/off:
 - Verify that power is supplied to the dimmer at the circuit breaker.
 - Check all wiring connections for tightness and correctness according to the wiring diagram (Image 5.1).
 - Ensure the connected light fixtures or ballasts are 0-10V dimmable.

• **Dimmer feels warm:** It is normal for dimmers to feel warm during operation. If the dimmer becomes excessively hot or emits a burning smell, immediately turn off power at the circuit breaker and contact a qualified electrician.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The ENERLITES 51300L-W Low Voltage Slide Dimmer Decorator Switch comes with a**1-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, misuse, abuse, or unauthorized modifications.

9.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact ENERLITES customer support. Refer to the product packaging or the official ENERLITES website for current contact information.

Related Documents - 51300L-W

Style in the Days Oppose The Control of Con	Electrical Switch Wiring Diagrams and Installation Guide Comprehensive guide with wiring diagrams for single pole and 3-way electrical switches, including safety warnings, installation instructions, and conductor specifications.
WITHOUT AND THE PARTY OF T	Enerlites 59302 120V Dimmer Installation Instructions for LED, CFL, Incandescent, and Halogen Comprehensive installation guide for the Enerlites 59302 120V dimmer switch. Learn how to wire for single-pole and 3-way configurations, adjust dimmer settings, and understand load capacity derating for various bulb types including LED, CFL, incandescent, and halogen.
METALIO MILIONO METALI	Enerlites LVD-102 Low Voltage Dual Dimmer Switch Installation Instructions Installation instructions for the Enerlites LVD-102 Low Voltage Dual Dimmer Switch, including specifications, LED indicators, wiring diagrams, troubleshooting, and warranty information.
W SUPPLY STATES OF THE STATES	Enerlites 55300 120V Dimmer Installation Guide Installation instructions and specifications for the Enerlites 55300 120V dimmer switch, compatible with dimmable LED, CFL, incandescent, and halogen bulbs for single-pole or 3-way applications.
Section Sectio	Enerlites 8901 Single Gang Multimedia Rubber Pass-Through Decorator Adapter Installation Instructions Detailed installation guide for the Enerlites 8901 Single Gang Multimedia Rubber Pass-Through Decorator Adapter. Learn how to organize cables for professional installations with this thermoplastic wall plate.



Enerlites 8891 Single Gang Bristled Pass-Through Decorator Adapter Installation Guide

Detailed installation instructions and specifications for the Enerlites 8891 Single Gang Multimedia Bristled Pass-Through Decorator Adapter, designed for clean cable management and professional installations.