Diode LED DI-24V-SE-60W

Diode LED SWITCHEX DI-24V-SE-60W Integrated LED Driver and Dimmer Instruction Manual

Brand: Diode LED | **Model:** DI-24V-SE-60W

1. Product Overview

The Diode LED SWITCHEX DI-24V-SE-60W is an integrated LED dimmer switch and low-voltage LED power supply. This unit is designed to simplify LED lighting installations by combining both components into a single device that fits within a standard electrical box. It accepts a 120 VAC input and converts it to a low-voltage DC output, making it suitable for various low-voltage LED lighting applications.



Image Description: This image illustrates the compact design of the SWITCHEX unit, featuring a standard dimmer switch faceplate in a light color, with the integrated driver component visible behind it. It is designed to be installed within a single-gang electrical wall box.

2. Safety Information

WARNING: Risk of Electric Shock. Installation of this product requires knowledge of electrical systems. If you are not qualified, do not attempt installation. Contact a qualified electrician. Always disconnect power at the circuit breaker before installing or servicing this unit.

- Ensure all wiring complies with national and local electrical codes.
- Do not exceed the maximum load rating of 60W.
- This device is intended for indoor use only.
- The unit includes a voltage barrier partition to safely separate high and low voltage circuits within the same switch box.

3. Package Contents

Verify that all components are present before beginning installation:

- Diode LED SWITCHEX DI-24V-SE-60W Unit
- Interchangeable Face Plates (Glossy White, Glossy Light Almond, Glossy Brown)

Note: Trim plate is not included.

4. Features

- **Integrated Design:** Combines an LED driver and in-wall dimmer switch into a single unit, simplifying installation and eliminating compatibility issues.
- **Smooth Dimming:** Provides 100% to 5% smooth dimming capability.
- **Power Failure Memory:** Retains the last dimming setting after a power interruption.
- **No Minimum Load:** Operates effectively without a minimum load requirement.
- **Standard Fit:** Designed to fit into a standard recessed electrical box.
- **Voltage Barrier:** Includes an internal partition for safe installation of high and low voltage circuits in the same switch box.
- **Interchangeable Face Plates:** Includes three color options (glossy white, light almond, brown) to match decor.

5. Installation

Follow these general steps for installation. Always consult local electrical codes and diagrams for specific wiring requirements.

1. **Turn Off Power:** Locate the circuit breaker controlling the switch location and turn off the power. Verify power is off using a voltage tester.
2. **Prepare Wiring:** Remove the existing switch (if any) and carefully identify the line voltage (120VAC) input wires and the low-voltage DC output wires for your LED lighting.
3. **Connect Wiring:** Connect the SWITCHEX unit according to the wiring diagram provided with the product and local electrical codes. Ensure secure connections for all wires (line, neutral, ground, and low-voltage output).
4. **Mount Unit:** Carefully place the SWITCHEX unit into the standard electrical wall box. Secure it with the provided screws.
5. **Attach Face Plate:** Select the desired face plate color (white, light almond, or brown) and attach it to the unit.
6. **Restore Power:** Turn the power back on at the circuit breaker.

6. Operation

The SWITCHEX unit features a rocker switch for on/off control and a sliding lever for dimming adjustment.

- **On/Off Control:** Press the top or bottom of the rocker switch to turn the connected LED lighting on or off.
- **Dimming Adjustment:** Use the sliding lever to adjust the brightness of the LED lighting from 100% down to 5%.

7. Specifications

Model Number	DI-24V-SE-60W
Input Voltage	120VAC (108 ~ 132VAC), 50/60Hz (47 ~ 63Hz)
Output Voltage	24VDC

Maximum Output Power	60W
Current Rating	1 Amps
Stand-by Power	≤0.5W
Operation Mode	Manual
Contact Type	Normally Open
Connector Type	Screw Terminals
Circuit Type	1-way
Actuator Type	Rocker
Contact Material	Copper
Package Dimensions	4.49 x 2.8 x 2.76 inches
Weight	9.14 ounces

8. Troubleshooting

If you encounter issues with your SWITCHEX unit, refer to the following common troubleshooting steps:

- **Lights Not Turning On:**
  - Verify that power is supplied to the circuit breaker.
  - Check all wiring connections for proper contact and polarity.
  - Ensure the connected LED lighting is compatible with a 24VDC power supply and does not exceed 60W.
- **Lights Not Dimming Properly:**
  - Confirm that the sliding dimmer lever is being adjusted correctly.
  - Ensure the LED lighting connected is dimmable.
- **Intermittent Operation:**
  - Inspect wiring for loose connections.
  - Check for any signs of damage to the unit or wiring.

If problems persist after following these steps, contact Diode LED customer support or a qualified electrician.

9. Maintenance

The Diode LED SWITCHEX DI-24V-SE-60W requires minimal maintenance.

- **Cleaning:** To clean the face plate, gently wipe with a soft, dry cloth. Do not use abrasive cleaners, solvents, or harsh chemicals, as these may damage the finish.
- **Inspection:** Periodically inspect the unit for any visible damage or loose connections. If damage is found, disconnect power and have the unit inspected by a qualified professional.

10. Warranty and Support

For information regarding the product warranty, please refer to the warranty documentation included with your

purchase or visit the official Diode LED website. For technical support, installation assistance, or to report a product issue, please contact Diode LED customer service directly through their official channels.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question