

HYPERLITE B08RYTRX79

HYPERLITE 1-10V Dimmer Switch User Manual

Model: B08RYTRX79

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1. PRODUCT OVERVIEW

The HYPERLITE 1-10V Dimmer Switch is designed for precise control of 1-10V dimmable LED lighting fixtures. It features a large rocker switch for on/off control and a slider for adjusting brightness levels. The robust thermoplastic housing ensures durability and seamless integration into various environments. This dimmer is compatible with LED High Bay Lights, LED Linear High Bay Lights, and High Power Wall Pack Lights, supporting a maximum power rating of 700W.

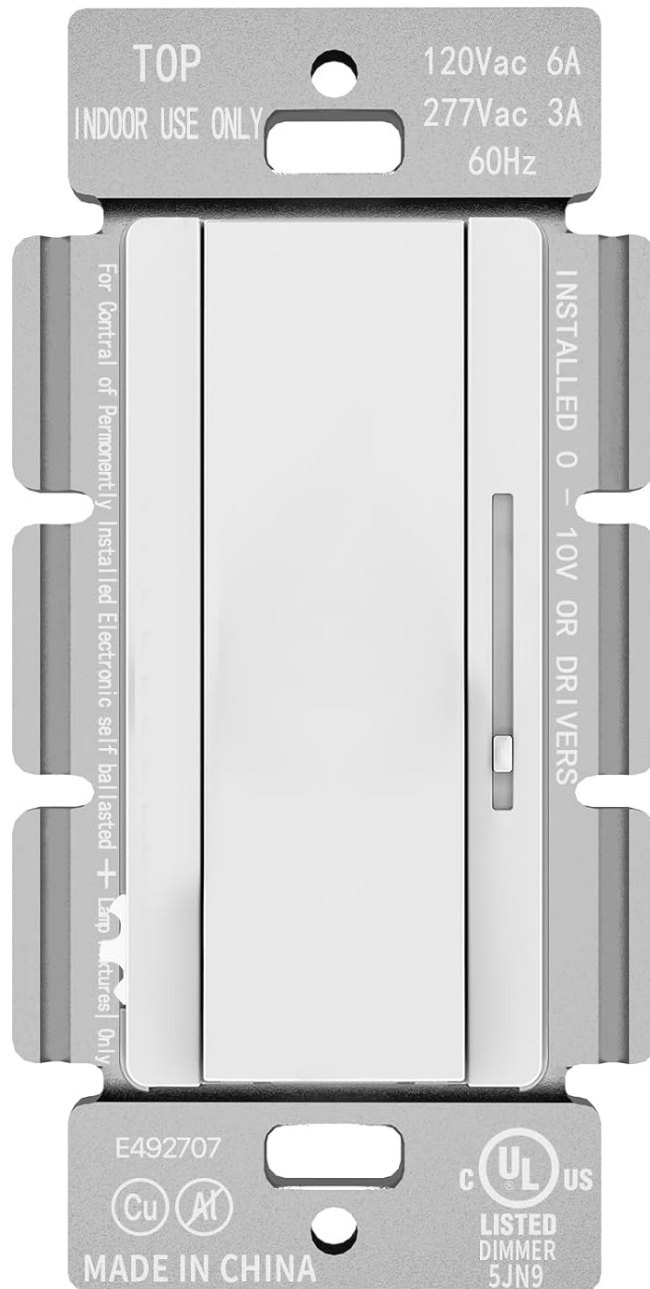


Figure 1: Front view of the Hyperlite 1-10V Dimmer Switch.

1.1 Key Components



Figure 2: Labeled components of the dimmer switch. The slider controls the light level, increasing brightness when moved up and decreasing it when moved down. The main switch turns lights on and off. Fine-tuning knobs for maximum and minimum light levels are located on the side.

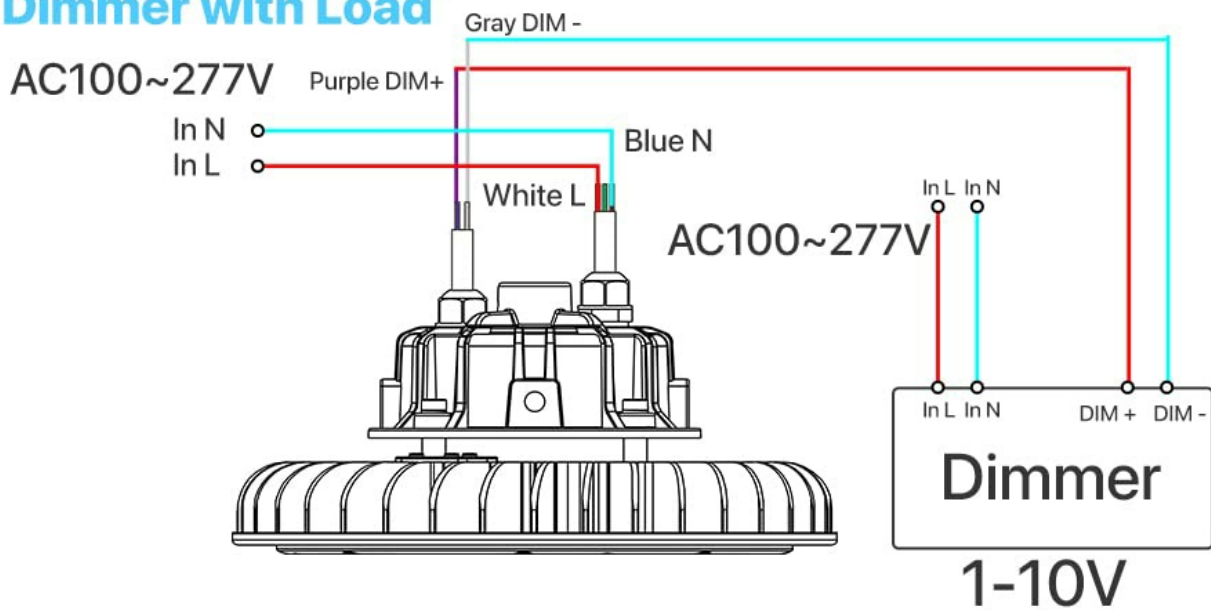
- **Rocker Switch:** Controls the ON/OFF state of the connected lighting.
- **Dimming Slider:** Adjusts the brightness level of the connected 1-10V dimmable LED fixtures.
- **Maximum Light Level Knob (High-End Knob):** Allows adjustment of the maximum brightness output.
- **Minimum Light Level Knob (Low-End Knob):** Allows adjustment of the minimum brightness output, ensuring stable dimming at low levels.

2. SPECIFICATIONS

Feature	Detail
Product Dimensions	4 x 3 x 2 inches; 1.6 ounces

Feature	Detail
Operation Mode	ON-NONE-OFF
Current Rating	6 Amps
Operating Voltage	110 Volts (AC100~277V compatible)
Contact Type	Normally Open
Connector Type	Screw Terminals
Terminal	Screw
Circuit Type	1-way
Actuator Type	Rocker
Max Power Rating	700W (for LED high bay lights)
Certification	UL Listed

Dimmer with Load



Dimmer with Load

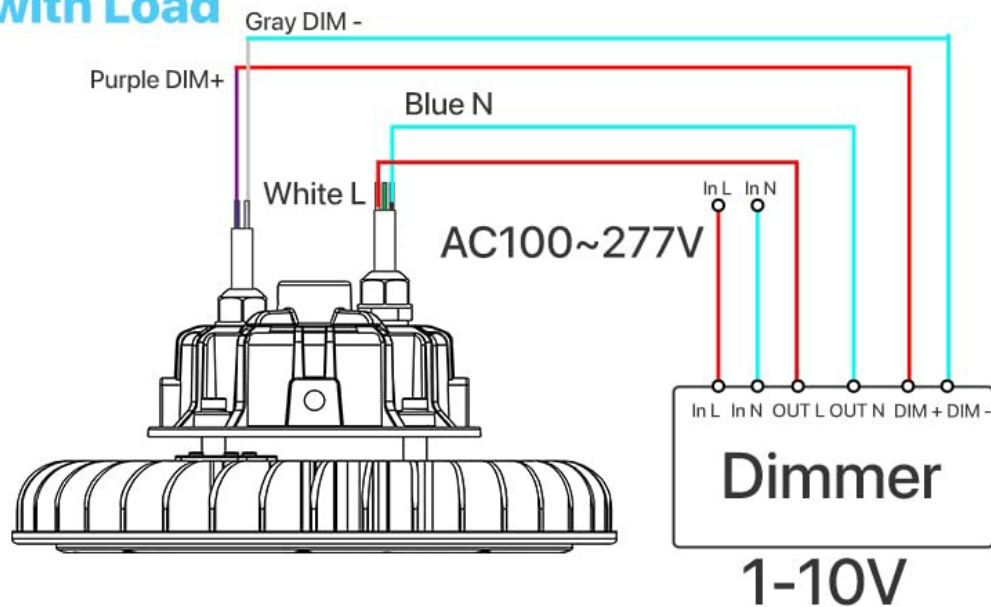


Figure 3: Dimensions of the Hyperlite 1-10V Dimmer Switch.

3. SAFETY INFORMATION

Please read all instructions carefully before installation and use. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- **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.
- This device must be installed in accordance with all national and local electrical codes.
- Use only with 1-10V dimmable LED fixtures. Do not use with standard incandescent, fluorescent, or non-dimmable LED loads.
- Ensure the total wattage of connected fixtures does not exceed the dimmer's maximum rating of 700W.
- If you are unsure about any part of these instructions, consult a qualified electrician.
- Indoor use only.

4. INSTALLATION

4.1 Tools Required

- Screwdriver (Phillips and Flathead)
- Wire Strippers
- Electrical Tape
- Voltage Tester

4.2 Wiring Instructions

1. **Turn off Power:** Locate the circuit breaker or fuse that supplies power to the switch location and turn it OFF. Verify power is off using a voltage tester.
2. **Remove Old Switch:** Carefully remove the existing wall plate and switch from the wall box. Disconnect the wires from the old switch.
3. **Identify Wires:** Identify the Line (hot), Load, Neutral, Ground, and 1-10V control wires (Purple DIM+ and Gray DIM-).
4. **Connect Wires:** Connect the wires to the HYPERLITE dimmer switch according to the wiring diagrams below. Ensure all connections are secure.
5. **Mount Switch:** Gently push the wired dimmer switch into the wall box. Secure it with screws.
6. **Install Wall Plate:** Attach the new or existing wall plate.
7. **Restore Power:** Turn the power back ON at the circuit breaker.

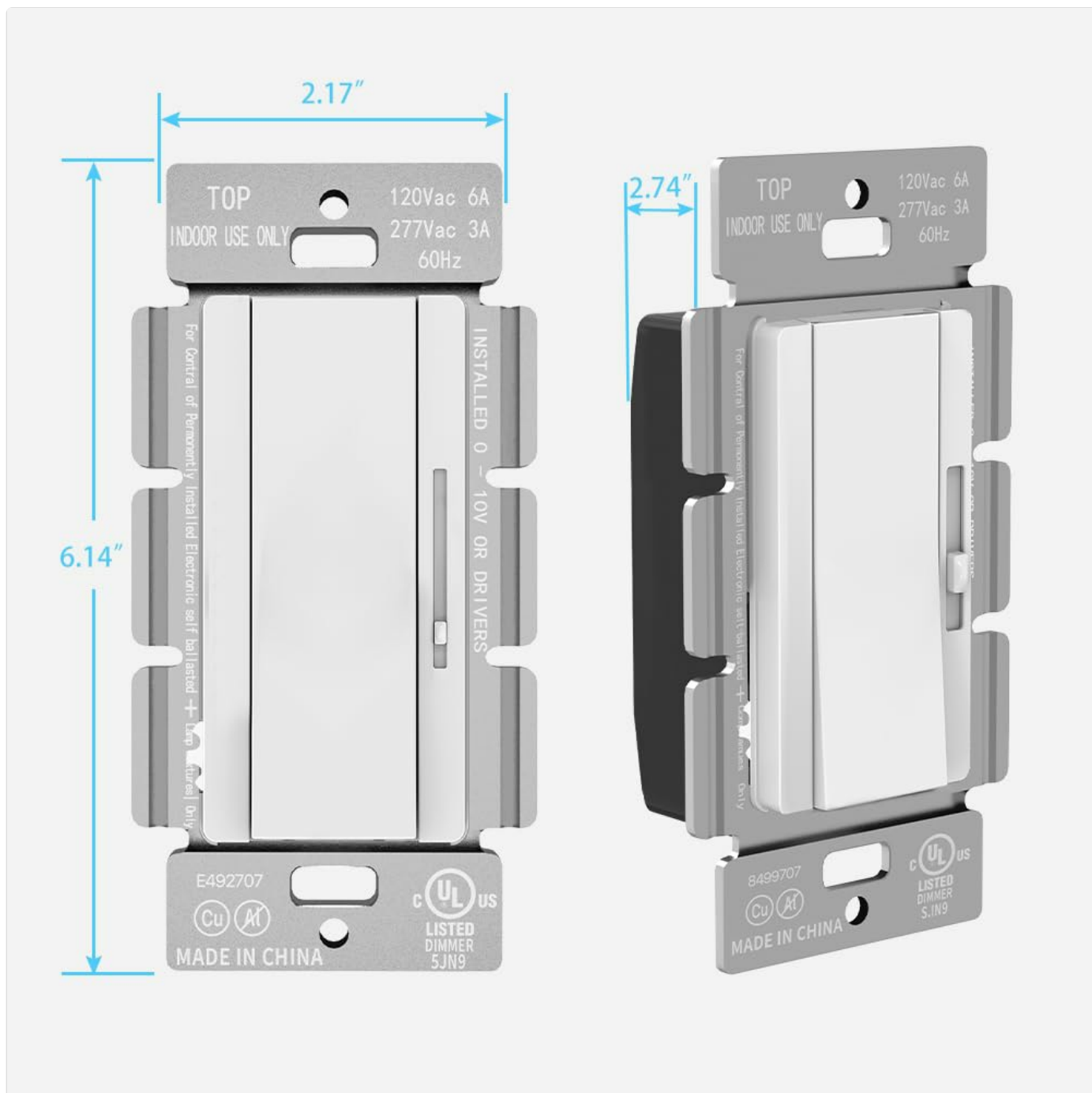


Figure 4: Wiring diagrams for the 1-10V Dimmer Switch. Ensure correct connection of Line (L), Neutral (N), and the 1-10V dimming control wires (Purple DIM+ and Gray DIM-).

4.3 Compatibility

This dimmer switch is compatible with:

- LED High Bay Lights
- LED Linear High Bay Lights
- High Power Wall Pack Lights

Ensure your LED fixtures are 1-10V dimmable for proper functionality.

5. OPERATING INSTRUCTIONS

The HYPERLITE 1-10V Dimmer Switch provides intuitive control over your lighting.

1. **Turning Lights ON/OFF:** Press the large rocker switch to turn the connected lights ON or OFF.

2. **Adjusting Brightness:** Use the vertical slider on the right side of the switch.

- Move the slider **up** to increase the light level.
- Move the slider **down** to decrease the light level.

3. **Fine-Tuning Dimming Range:** The dimmer allows for 10% to 100% full-range dimming. If needed, adjust the small knobs on the side of the dimmer (visible when the wall plate is removed) to set the desired maximum and minimum brightness levels for your specific fixtures. This helps eliminate flickering at low light levels and ensures the desired maximum output.



Figure 5: Demonstration of brightness levels (20%, 50%, 100%) achievable with the dimmer switch.



Figure 6: The dimmer switch is designed to provide flicker-free dimming, preventing buzzing or humming noises.

6. MAINTENANCE

The HYPERLITE 1-10V Dimmer Switch requires minimal maintenance.

- **Cleaning:** To clean the dimmer switch, first turn off the power at the circuit breaker. Use a soft, damp cloth with mild soap and water. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the dimmer switch and wall plate for any signs of damage or loose connections. If any issues are found, turn off power and consult a qualified electrician.
- **No User-Serviceable Parts:** There are no user-serviceable parts inside the dimmer switch. Do not attempt to open or repair the unit.

7. TROUBLESHOOTING

If you experience issues with your HYPERLITE 1-10V Dimmer Switch, refer to the following common problems and

solutions:

Problem	Possible Cause	Solution
Lights do not turn ON.	- Power is off at the breaker. - Loose wiring connection. - Bulb(s) or fixture(s) are faulty. - Incorrect wiring.	- Check circuit breaker and turn ON. - Turn off power, check all wire connections. - Test with known working bulb/fixture. - Review wiring diagrams and re-wire if necessary.
Lights do not dim or dim incorrectly.	- Non-1-10V dimmable fixtures. - Incorrect 1-10V control wire connection. - Minimum/Maximum light level knobs set incorrectly.	- Ensure fixtures are 1-10V dimmable. - Turn off power, check Purple DIM+ and Gray DIM- connections. - Adjust the high-end and low-end trim knobs on the dimmer.
Lights flicker or hum.	- Incompatible fixture. - Minimum light level set too low. - Loose wiring.	- Ensure fixtures are 1-10V dimmable and compatible. - Adjust the minimum light level knob slightly higher. - Turn off power, check all wire connections.
Dimmer switch is hot to the touch.	- Overloaded circuit. - Poor ventilation in wall box.	- Reduce the total wattage of connected fixtures. - Ensure adequate space in the wall box. Consult an electrician if overheating persists.

8. WARRANTY AND SUPPORT

HYPERLITE stands behind the quality of its products.

- **Warranty:** This 1-10V dimmer switch comes with a**5-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.
- **Return Policy:** A **30-day return policy** is offered from the date of purchase.
- **Customer Support:** For any questions, technical assistance, or warranty claims, please contact HYPERLITE customer service. Our dedicated team is available to provide excellent after-sales service.

For more information or to contact support, please visit the official HYPERLITE store:[HYPERLITE Store on Amazon](#).

