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› JacobsParts 3-Key LED Controller (Model LED-DIMMER-16) User Manual for RGB LED Light Strips

JacobsParts LED-DIMMER-16

JacobsParts 3-Key LED Controller (Model LED-DIMMER-16) User Manual

For RGB LED Light Strips with Fixed Color Selection, Dimming, and Color Changing Effects

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your JacobsParts 3-Key LED Controller. This controller is designed for use with 12V or 24V RGB LED light strips, offering a range of fixed colors, dimming capabilities, and dynamic color-changing effects. Please read this manual thoroughly before use to ensure proper function and safety.

2. SAFETY GUIDELINES

- Ensure the power supply voltage matches the controller's input voltage (12-24V DC).
- Do not exceed the maximum output power of the controller (12V 6A/72W, 24V 6A/144W).
- Disconnect power before making any electrical connections or performing maintenance.
- Avoid exposing the controller to moisture or extreme temperatures.
- This device is intended for indoor use unless otherwise specified.
- Consult a qualified electrician if you are unsure about any wiring procedures.

3. PRODUCT OVERVIEW

The JacobsParts 3-Key LED Controller is a compact device designed to manage RGB LED light strips. It features three intuitive buttons for controlling color, brightness, and dynamic effects.

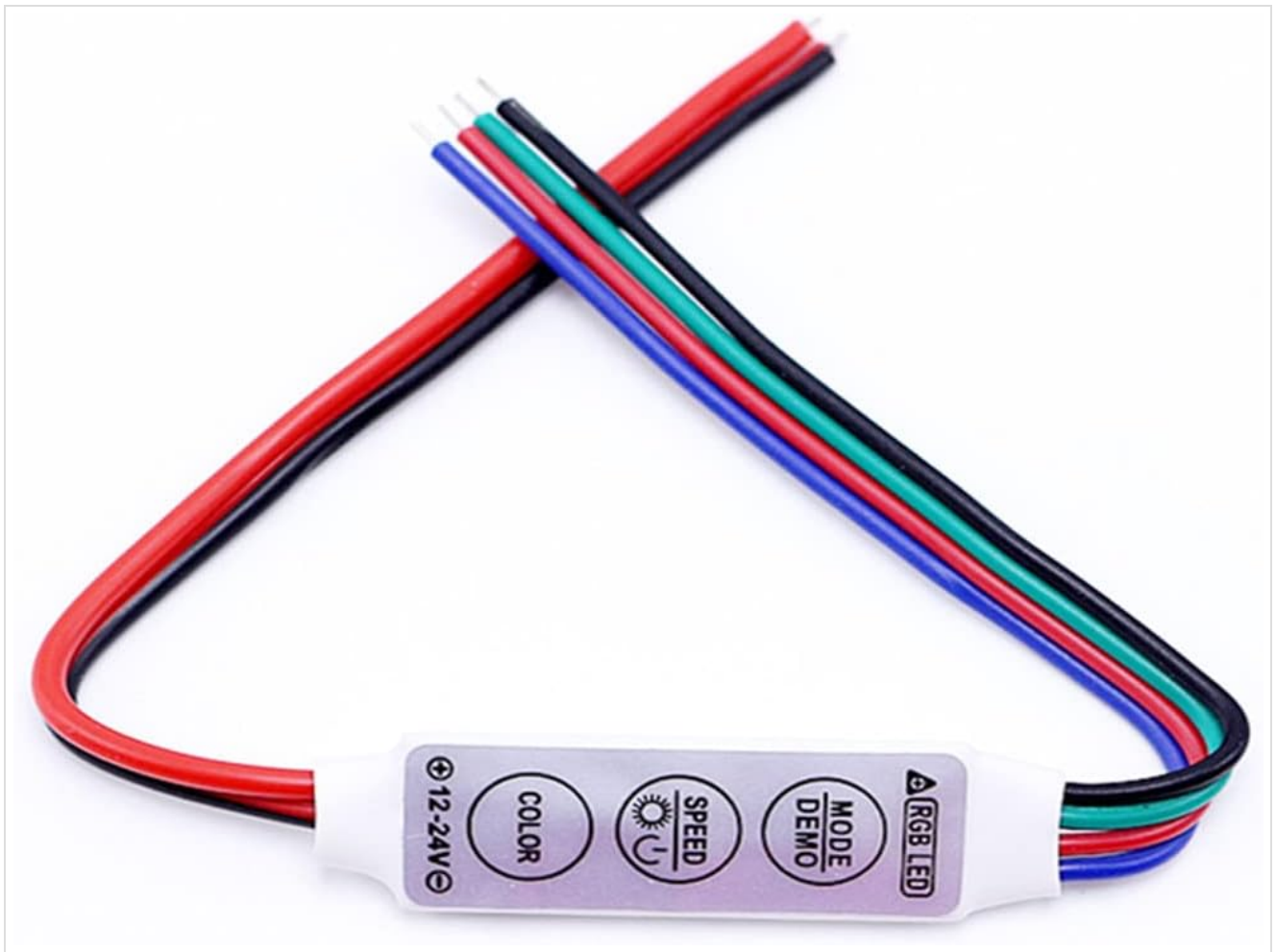


Figure 1: Full view of the JacobsParts 3-Key LED Controller, showing the compact control unit and its red/black DC input wires and RGB LED output wires.



Figure 2: Close-up view of the controller's interface, highlighting the three control buttons: COLOR, SPEED, and MODE/DEMO, along with the 12-24V DC input label.

4. INSTALLATION AND WIRING

Follow these steps to correctly install and wire your LED controller:

1. **Prepare Wires:** The controller comes with stripped and tinned wires suitable for direct soldering or connection via terminal blocks (not included).
2. **Connect DC Input:** Connect the red wire from the controller's input side to the positive (+) terminal of your 12V or 24V DC power supply. Connect the black wire to the negative (-) terminal. Ensure correct polarity.
3. **Connect LED Output:** Connect the controller's output wires to your RGB LED light strip. The black wire is typically for common positive (+), and the red, green, and blue wires correspond to their respective color channels. Match the wires from the controller to the corresponding inputs on your LED strip (e.g., controller's red to strip's red, controller's green to strip's green, controller's blue to strip's blue, controller's black to strip's common positive).
4. **Secure Connections:** Ensure all connections are secure and insulated to prevent short circuits.
5. **Apply Power:** Once all connections are verified, connect your power supply to the main power source.

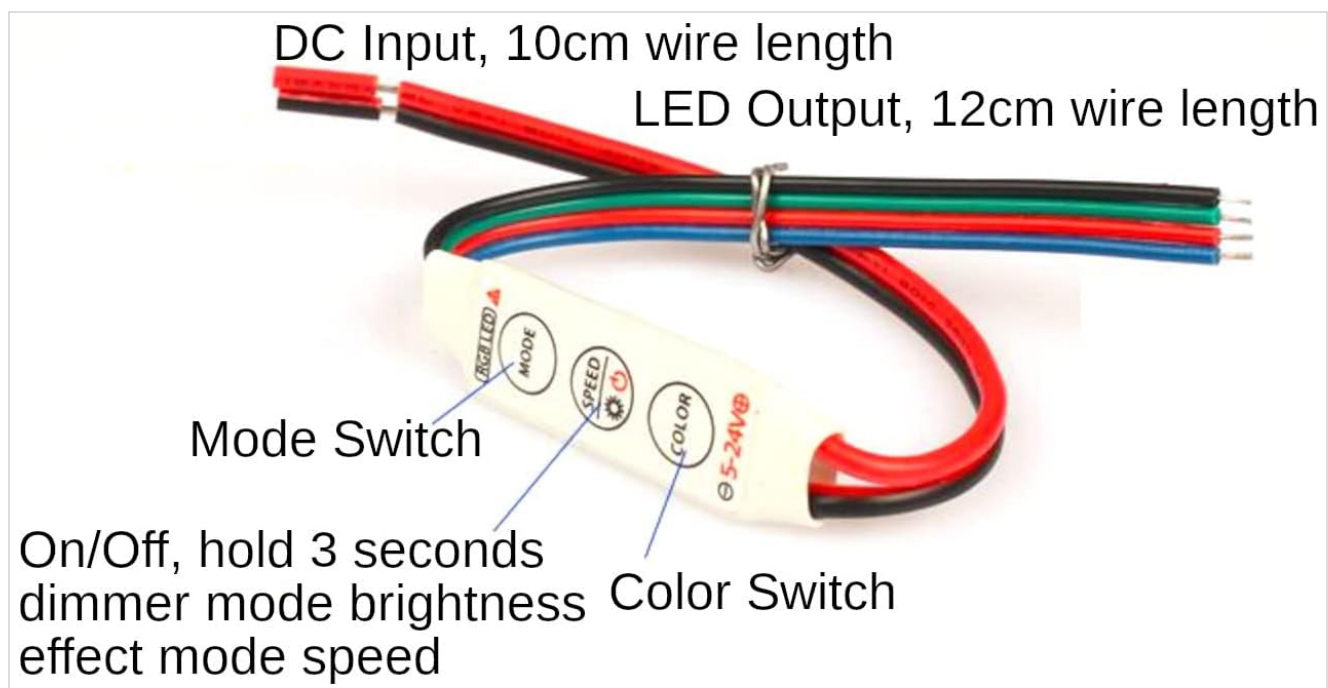


Figure 3: Wiring diagram illustrating the DC input (10cm wire length) and LED output (12cm wire length) connections, along with the labels for the COLOR, SPEED, and MODE/DEMO buttons.

5. OPERATING INSTRUCTIONS

The controller features three buttons for easy operation:

- **COLOR Button:**
 - **Short Press:** Cycles through 20 fixed colors.
 - **Long Press (hold):** Adjusts brightness levels for the currently selected fixed color. There are 5 brightness levels.
- **SPEED Button:**
 - **Short Press:** Adjusts the speed of dynamic color-changing effects. There are 5 speed levels.
 - **Long Press (hold for 3 seconds):** Turns the LED strip On or Off.

- **MODE / DEMO Button:**

- **Short Press:** Cycles through 19 different color-changing effects.

Power-off Memory: The controller retains the last selected mode, color, brightness, and speed settings when power is removed and restored.

6. FEATURES

- 3-Key control for RGB LED Light Strips.
- 19 Color Changing Effects with 5 Speed Levels.
- 20 Fixed Colors with 5 Brightness Levels.
- Power-off Memory function.
- Low Profile Design for discreet installation.
- Stripped and tinned wires for easy connection.
- Wide input voltage range: 12-24V DC.

7. SPECIFICATIONS

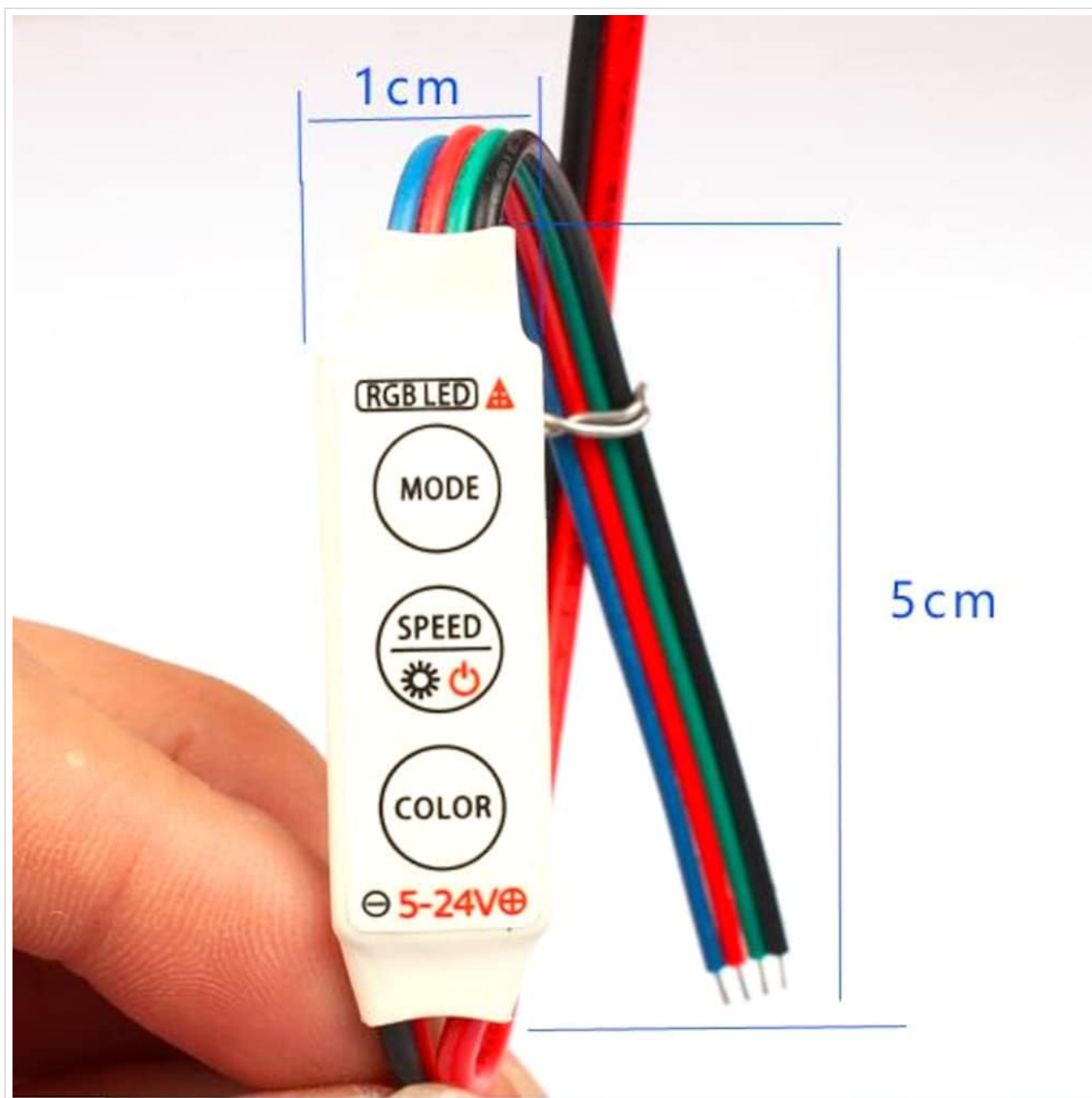


Figure 4: Physical dimensions of the controller unit, measuring approximately 1cm in width and 5cm in length.

Specification	Value
Model Number	LED-DIMMER-16
Input Voltage	12-24V DC
Output Power (Max)	12V: 6A (72W), 24V: 6A (144W)
Control Method	3-Key Push Button
Fixed Colors	20
Brightness Levels	5
Color Changing Effects	19
Effect Speed Levels	5
Memory Function	Power-off Memory

Dimensions (Controller Unit)	Approx. 5 cm (Length) x 1 cm (Width)
Item Weight	Approx. 1 ounce

8. TROUBLESHOOTING

- **LEDs not lighting up:**

- Check all wiring connections for correct polarity and secure contact.
- Ensure the power supply is functioning and providing the correct voltage (12V or 24V DC).
- Verify the LED strip itself is functional.
- Confirm the controller is turned on (long press the SPEED button).

- **Incorrect colors or flickering:**

- Check the connections between the controller output and the LED strip for proper color channel matching (Red to Red, Green to Green, Blue to Blue, Common Positive to Common Positive).
- Ensure the power supply is adequate for the length and type of LED strip used.

- **Controller unresponsive:**

- Disconnect and reconnect power to reset the controller.
- Ensure the input voltage is within the specified range (12-24V DC).

9. MAINTENANCE

The JacobsParts 3-Key LED Controller requires minimal maintenance. Keep the unit clean and free from dust. Do not use harsh chemicals or abrasive cleaners. Ensure the controller is not exposed to excessive heat or moisture, which can damage internal components.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact JacobsParts customer service through their official channels. Please have your model number (LED-DIMMER-16) and purchase details ready when contacting support.

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