Manuals+ — User Manuals Simplified.

Armacost 513115 ProLine Single Color LED Controller with RF Remote Control User Guide

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Armacost 513115 ProLine Single Color LED Controller with RF Remote Control

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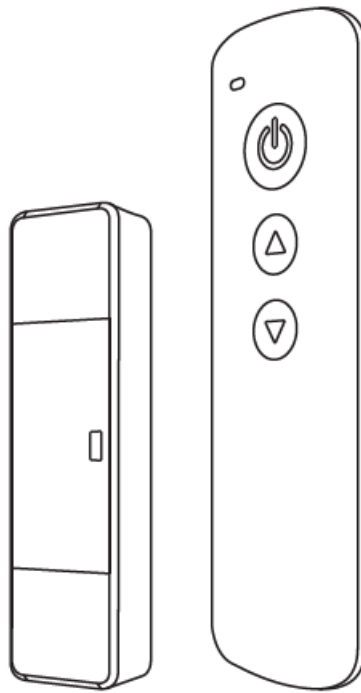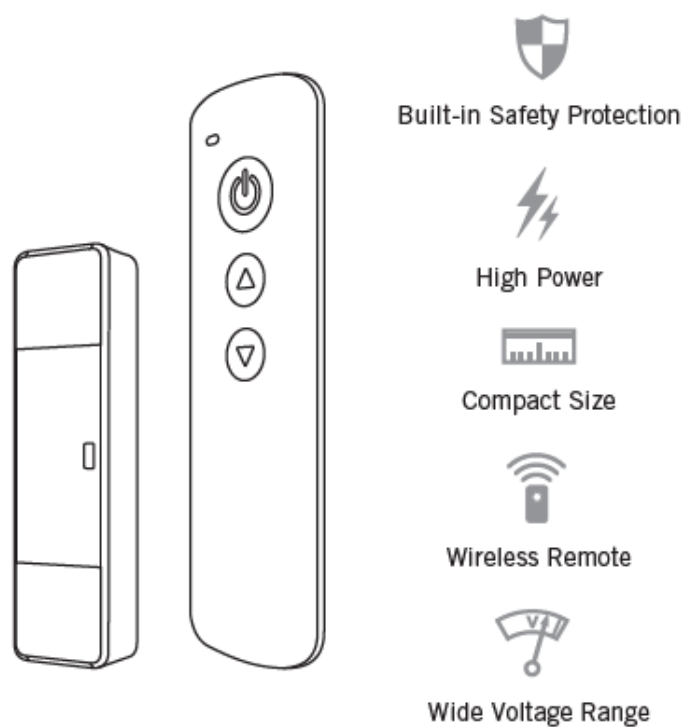
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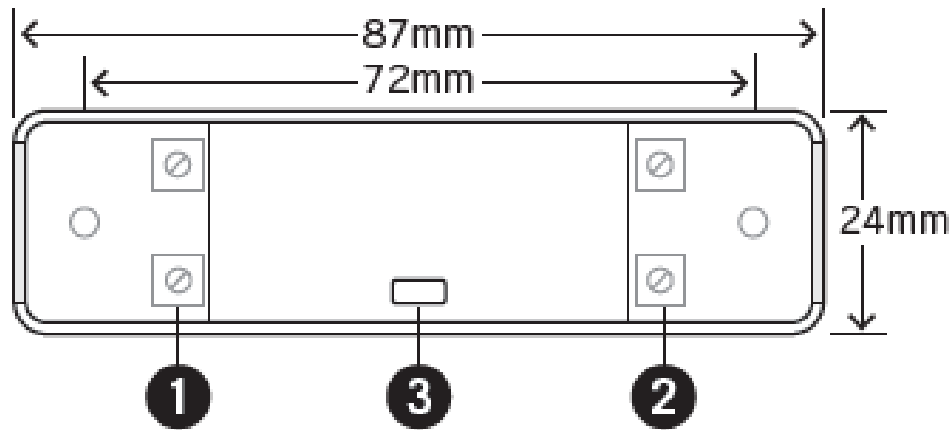
Introduction

This LED controller is designed to drive constant voltage single color LED products such as LED tape light or LED fixtures in a voltage range of 5–24 volts DC. The receiver works with the RF wireless remote control, which allows the user to adjust LED brightness.

Receiver & wiring

Input – from the power supply
The controller input and output voltage range is
5–24 volts DC. Make sure the LED lighting voltage is within this range and below the rated wattage of the power supply. Connect input wires from the power supply to the controller as indicated by the polarity markings on the controller (+ to + and – to –).

Output – to LED lighting
Observe polarity indicated on the controller when connecting to LED lighting (+ to + and – to –).
Make sure the voltage of the LED lighting is the same as the power supply and the maximum load doesn't exceed that of the controller.
**CAUTION:** Shorting of output cables could cause permanent damage to controller. Make sure cables are well insulated from each other.

Status indicator
This light shows the working status of the controller. It shows different events as follows:

- **Steady green:** Normal operation
- **Single green blink:** Command received.
- **Long single green blink:** Mode or color cycle edge. Long single yellow blink: Reach brightness limit. Red flash: Overload protection.
- **Yellow flash:** Overheat protection.
- **Green flash 3 times:** New remote controller paired.
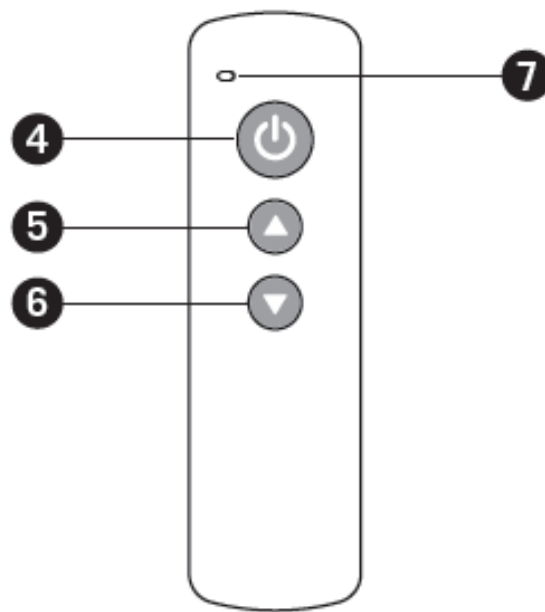
Wiring diagram
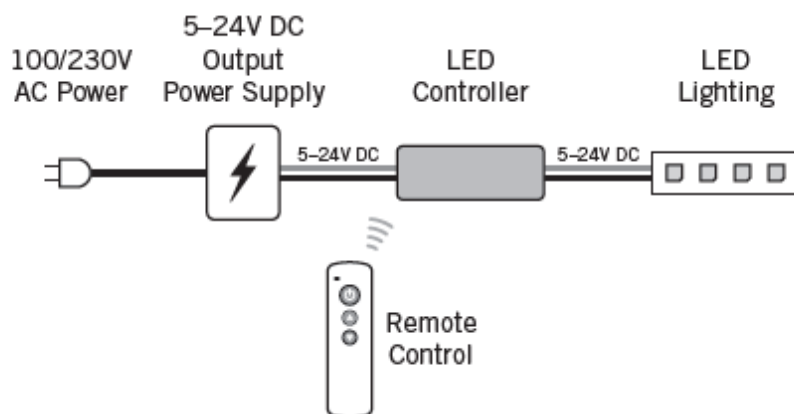
Connect the power supply to the controller input and the controller output to the LED lighting. The output voltage of the power supply must be the same as the voltage of the LED lighting. Make sure all power cables are conected

securely and insulated before powering on.

Remote Control

- **4. On/Off**

  Press this key to turn on controller. Press and hold to turn off. The controller will remember the controller state when powered off, and will return to that state when powered back on.

- **5/6. Brightness adjustment**

  Press the "▲" and "▼" keys to adjust brightness.

- **7. Remote indicator**

  When pressing keys, the indicator blinks if the remote is working properly. If the indicator flashes slowly when pressing keys, battery power is low and it needs to be replaced. Replace with a CR2032 battery.

Remote control operation

8. Using the remote control
Pull out plastic battery insulation tab before use. The RF wireless remote will work through non-metal walls and doors. Do not install in a metal enclosure.

9. Pairing with a new remote control
The remote control and receiver are already paired, but up to 5 remotes can be paired to one receiver.

To pair a new remote:

1. Disconnect power to receiver and wait five seconds.
2. Reconnect power.
3. Within ten seconds, press the ON/OFF and "▼" keys simultaneously for about three seconds.

10. De-pairing remotes
To de-pair a remote control, pair the remote you wish to continue using with the controller and any other paired remotes will be de-paired.

Safety protection

The controller has built-in protection for incorrect wiring, output short circuiting, overloading and overheating. If the any of these conditions occurs, the receiver will automatically shut down until the issue is corrected. If this occurs, check to make sure the connected LED lighting is rated for constant voltage current and is in the controller's voltage output range. Also, make sure all cables are securely connected and insulated, and that the receiver is well ventilated.

Specifications

- Output mode ……………………..PWM constant voltage
- Working voltage …………………………………5–24V DC
- Rated output current ………………………………1x10A
- Brightness grade ………………………………… 11 levels
- PWM grade ………………………………………4000 steps
- Overload protection …………………………………..Yes
- Overheat protection …………………………………..Yes
- Remote frequency ……………………………433.92MHz
- Remote control range ……. >49 ft./15m in open areas
- Controller dimensions ………. 1.97 X 0.59 X 0.28 in./
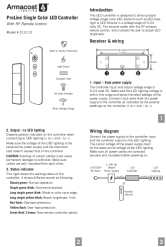
……………………………………… 87 X 24 X 14.5mm

Customer support
Email: **support@armacostlighting.com**
Phone: 410-354-6000

Three-year limited warranty
This product is for dry location use only. Improper installation, improper powering, abuse, or failure to use this device for its intended purpose will void warranty. Proof of purchase is required for all returns. Questions? Email **support@armacostlighting.com**

Documents / Resources

Armacost 513115 ProLine Single Color LED Controller with RF Remote Control [pdf] User Guide
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