

## ProLine Single Color LED Controller

*With RF Remote Control*

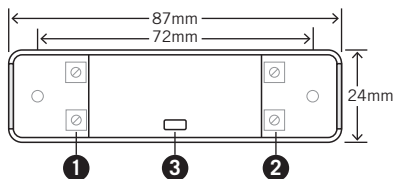
Model # 513115



## 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



### 1. Input – from 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 –).

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### 2. 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.

### 3. Status indicator

This light shows the working status of the controller. It shows different events as following:

**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.

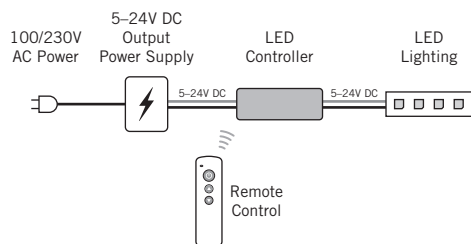
**Red flash:** Overload protection.

**Yellow flash:** Over heat protection.

**Green flash 3 times:** New remote controller paired.

## Wiring diagram

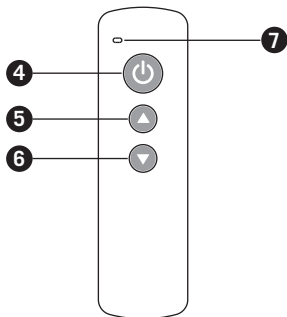
Connect the power supply to the controller input and the controller output to the LED lighting. The output voltage of the power supply must be the same as the voltage of the LED lighting. Make sure all power cables are connected securely and insulated before powering on.



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## 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.

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## 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

## 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.

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## Customer support

Email: [support@armacostlighting.com](mailto:support@armacostlighting.com)

Phone: 410-354-6000

Monday–Friday, 9 a.m.–5 p.m., ET

## 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](mailto:support@armacostlighting.com).

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