LS2 - RGBW Color Receiver

LED WORLD Inc
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BEFORE YOU BEGIN, READ ALL WARNINGS AND INSTALLATION INSTRUCTIONS (AS THEY MAY HAVE BEEN UPDATED FROM PREVIOUS VERSIONS). IMPROPER INSTALLATION(S) PRESENT HAZARDS, WHICH CAN RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE.

SAFETY & WARNINGS

Securely mount the LS2 using the two mounting points at each end.

This product is intended to be installed and serviced by a qualified licensed electrician. Install in accordance with the National Electric Code, and local regulations.
Only power with a regulated (listed) constant voltage Class 2 power supply (12-24V DC).

Ensure applicable wire is installed between driver, fixture, and any controls in between. When choosing wire, factor in voltage drop, amperage rating and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires and cause fire.

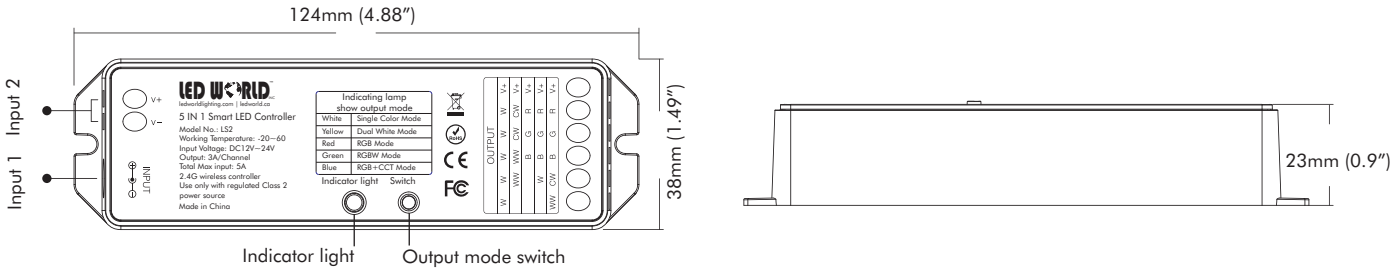
This product is rated for indoor installation and only for dry locations. Do not install in washrooms or areas near water (or the possibility of in the future).

Do not modify this product beyond the instructions in this guide or the warranty will be voided.
Wiring diagrams in this installation guide for basic installations. Please carefully review your installation before proceeding with a qualified electrician familiar with low voltage wiring techniques.

INTRODUCTION

5 in 1 (RGB, RGBW, CCT, RGB+CCT and single color) controller is the wireless controller works with wireless remote FUT089. The LS2 controller features mesh network and auto-synchronizing function with brightness, CCT, RGB, RGBW and RGB+CCT output mode. LS2 controller uses 2.4GHz wireless technology. It consumes less power, transmits signal over a long distance and it is anti-interference.

LS2 OPERATION OVERVIEW



Indicator light color instruction:

White	Single color mode
Yellow	Dual White Mode
Red	RGB Mode
Green	RGBW Mode
Blue	RGB+CCT Mode

LS2 TECHNICAL SPECIFICATIONS

Input voltage	DC12V-DC24V Class 2 Regulated
Output	5A/channel, Max 5A
Compatible remote control	FUT089
Remote Distance	22.8m (75 Feet) Clear line of sight
Working temperature	-20°C~40°C (-4°F~104°F)
Dimension	L124mm(4.88") × W38mm(1.49") × H23mm(0.9")

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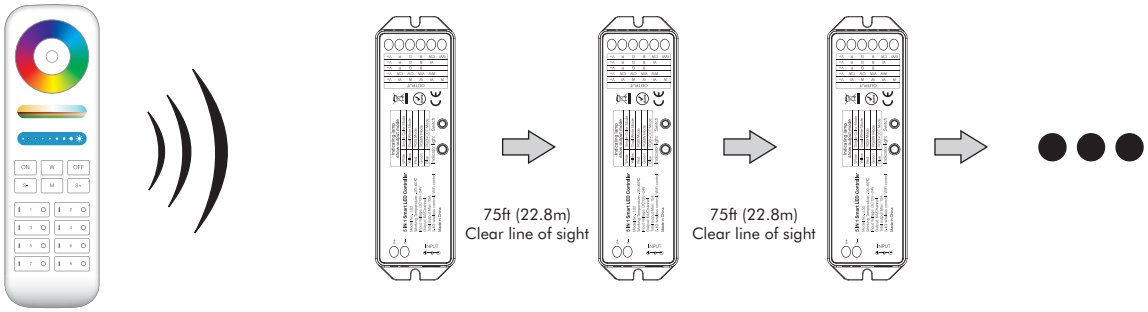
MESH NETWORK



Controllers can send signals to another controller within 75ft (22.8m) distance creating a mesh network.

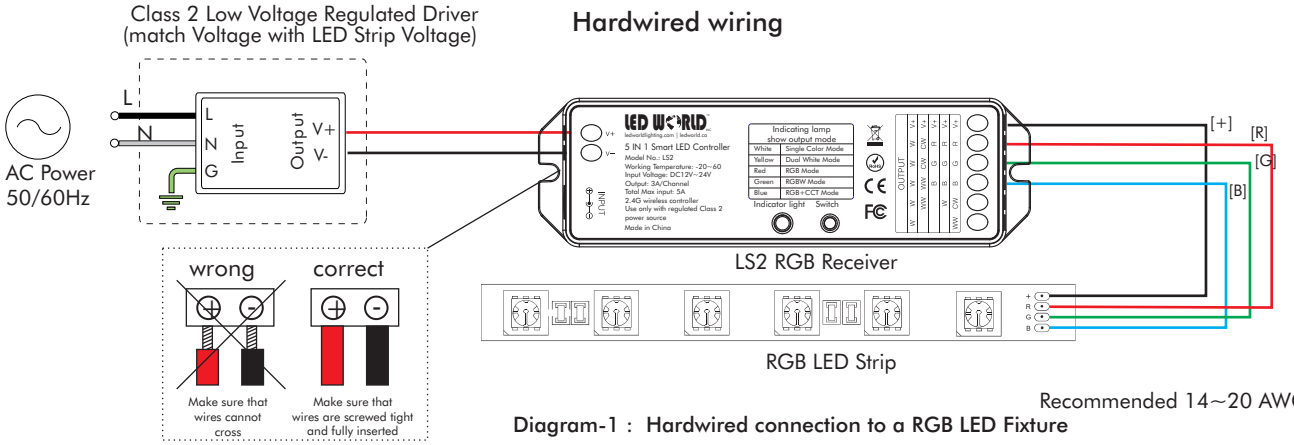
WIRING DIAGRAM

Warning: Input voltage must be identical to output voltage of the LED Fixture!

WIRE 6-8MM (0.25-0.30")

Exposed wire should not be more than 6- 8 mm long & solder tip (tinned). Do not allow Wires to cross and insure all exposed wire is fully inserted into the screw terminals. Hand tighten screw terminals. Use 22 to 16 AWG gauge wire for output terminals.

Hardwired wiring



Recommended 14~20 AWG cord

Diagram-1 : Hardwired connection to a RGB LED Fixture

Wiring with a Plug-in Driver

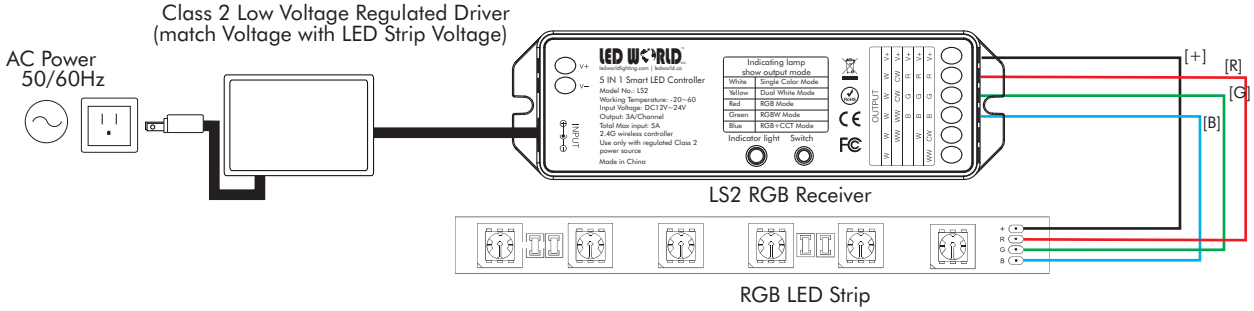


Diagram-2 : Plug-in connection to a RGB LED Fixture

Recommended 14~20 AWG cord

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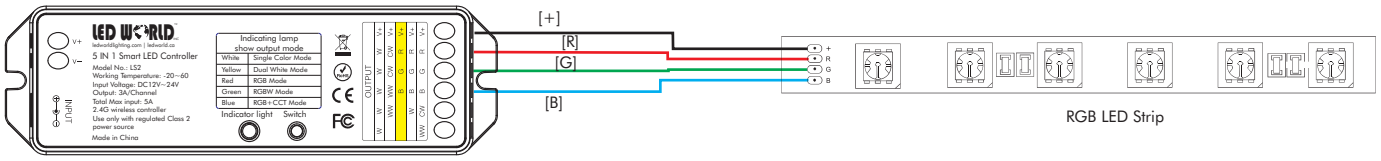
RGB FIXTURE WIRING DIAGRAM



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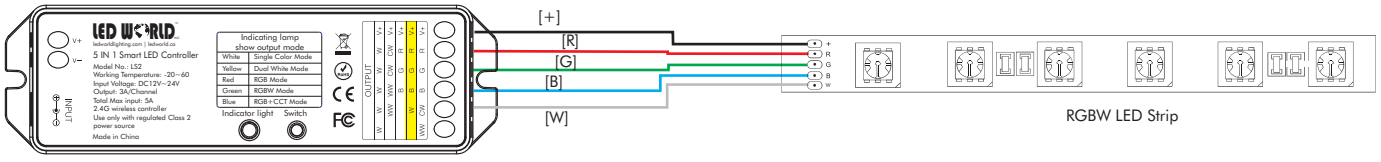
RGBW FIXTURE WIRING DIAGRAM



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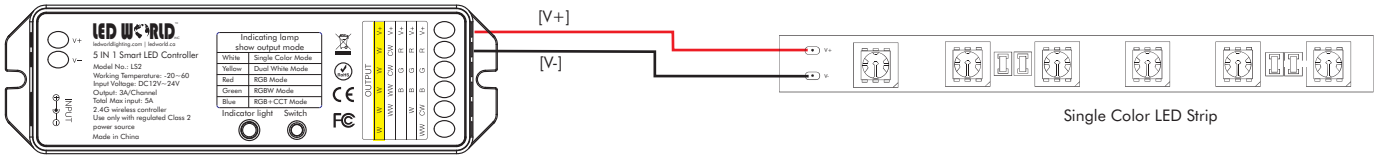
SINGLE COLOR FIXTURE WIRING DIAGRAM



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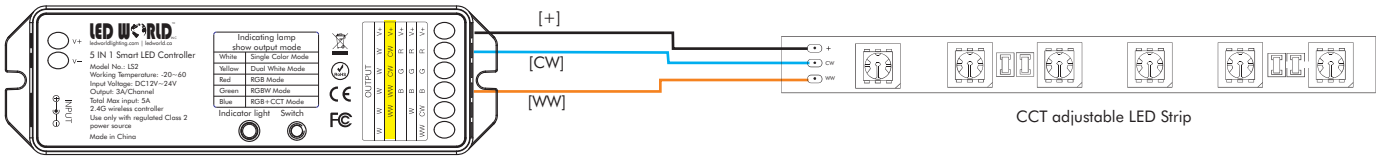
CCT ADJUSTABLE FIXTURE WIRING DIAGRAM



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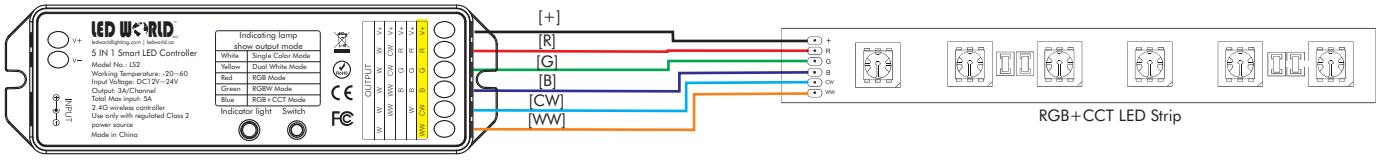
RGB+CCT FIXTURE WIRING DIAGRAM



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PAIRING/UNPAIRING WITH FUT089 REMOTE CONTROLLER

Zone On (I) button

Pairing:

- Turn OFF LS2 receiver by disconnecting the power, then turn ON by reconnecting the power after about 5 seconds.
- Before pressing anything on the FUT089 remote controller, press "I" button on the desired zone 3 times quickly. Connected LED fixture light will blink 3 times when the pairing is done.
- Check the indicator light on LS2 receiver according to connected LED fixture. (eg. For RGB mode indicator light should be red). Touch the color wheel to make sure that device is paired and changes the color.

Note: If you have to control multiple receivers synchronously, each receiver should be paired according to the above steps.

Unpairing:

- Turn OFF LS2 receiver by disconnecting the power, then turn ON by reconnecting the power after about 5 seconds.
- Before pressing anything on the FUT089 remote controller, press "I" button on desired zone you wish to unpair 5 times quickly. Connected LED fixture light will blink 10 times when the receiver is unpaired.

Note: Changing a receiver to a different zone can be done using the above steps. Unpair it first from current zone, then pair it to new zone number.

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