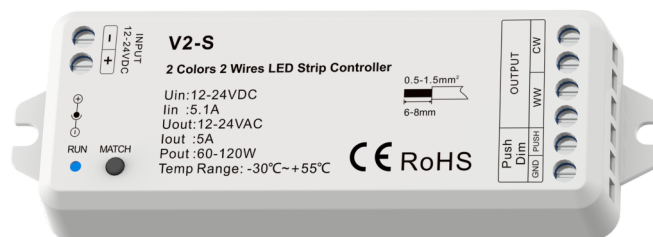


2 Colors 2 Wires LED Strip Controller

- Only apply to 2-wires WW+CW LED strip.
- Match with RF 2.4G single zone or multiple zone dual color remote control.
- One RF controller accept up to 10 remote control.
- 4096 levels 0-100% dimming smoothly without any flash.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance.
- Synchronize on multiple number of controllers.
- 3 levels color temperature (WW, NW and CW) selectable by continuous power off and on operation.
- Connect with external push switch to achieve on/off and 0-100% dimming function.

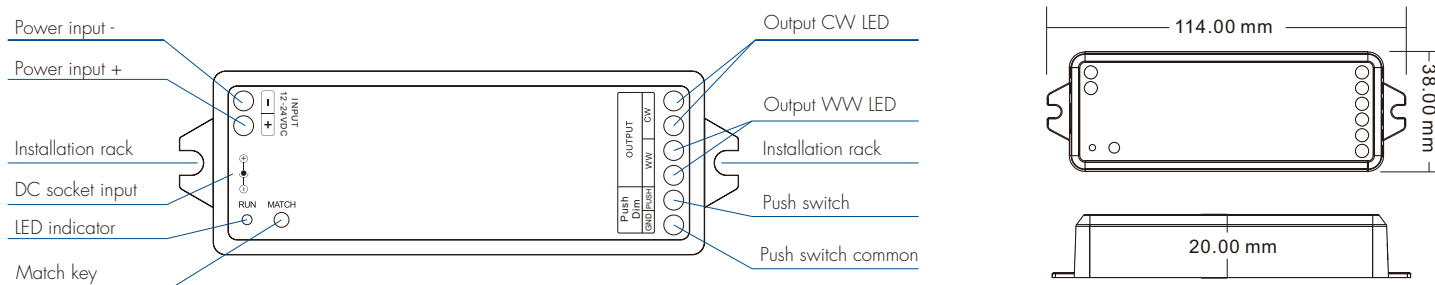


CE RoHS LVD RED 2-wires CCT / Step-less dimming / Wireless remote control / Auto-transmitting / Synchronize / Push Dim

Technical Parameters

| Input and Output | | Dimming data | | Safety and EMC | |
|--------------------------------|------------------|-------------------------|-------------------------|----------------------|---|
| Input voltage | 12-24VDC | Input signal | RF 2.4GHz + Push Dim | EMC standard (EMC) | ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4 |
| Input current | 5.1A | Control distance | 30m(Barrier-free space) | Safety standard(LVD) | EN 62368-1:2020+A1 1:2020 |
| Output voltage | 12-24VAC | Dimming gray scale | 256 levels | Radio Equipment(RED) | ETSI EN 300 328 V2.2.2 |
| Output current | 5A | Dimming range | 0-100% | Certification | CE, EMC, LVD, RED |
| Output power | 60-120W | Dimming curve | Linear | Package | |
| Output type | Constant voltage | PWM Frequency | 2KHz | Size | L120x W43 x H27mm |
| Warranty and Protection | | Environment | | Gross weight | 0.066kg |
| Warranty | 5 years | Operation temperature | Ta: -30°C ~ +55°C | | |
| Protection | Reverse Polarity | Case temperature (Max.) | Tc: +85°C | | |

Mechanical Structures and Installations



Match Remote Control (two match ways)

End user can choose the suitable match/delete ways. Two options are offered for selection:

Use the controller's Match key

Match:

Short press match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) of the remote.

The LED indicator fast flash a few times means match is successful.

Delete:

Press and hold match key for 5s to delete all match, The LED indicator fast flash a few times means all matched remotes were deleted.

Use Power Restart

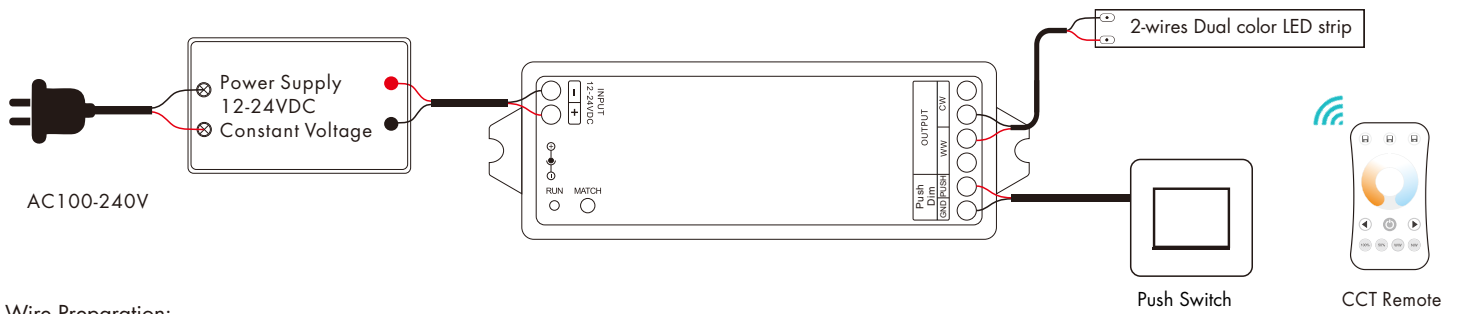
Match:

Switch off the power, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.

Delete:

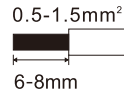
Switch off the power, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 5 times on the remote. The light blinks 5 times means all matched remotes were deleted.

Wiring Diagram



Wire Preparation:

1. The wiring can be solid or stranded with a cross-sectional area of 0.5 to 1.5 mm². Conventional 1mm² can withstand 10A output current.
2. When wiring is installed, the terminals must be tightened. If they are not tightened, the contact point resistance will be too high and the terminals will easily burn due to heat when used at full load for a long time.



- Note:**
1. Continuously switch off and on the power supply two times rapidly, it will change 3 levels color temperature (WW, NW and CW) in sequence.
 2. The output power of a constant voltage power supply should be at least 1.2 times that of the output load (light strip), otherwise the full power output of the load can easily cause automatic flickering or shaking of the light.

Push Dim

| | |
|---------------------------|--|
| Click | ON/OFF |
| Long press(> 1s) from OFF | Color temperature UP/DOWN (turn off and turn on to return dimming) |
| Long press(> 1s) from ON | Dimming UP/DOWN |

The provided Push-Dim interface allows for a simple dimming method using commercially available non-latching (momentary) wall switches.

If more than one controller are connected to the same push switch, do a long press for more than 10s, then the system is synchronized and all lights in the group dim up to 100%.

This means there is no need for any additional synchrony wire in larger installations.

We recommend the number of controllers connected to a push switch does not exceed 50 pieces,

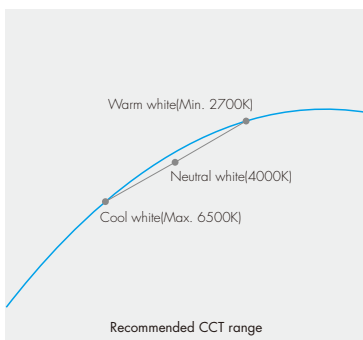
The maximum length of the wires from push to controller should be no more than 50 meters.

Dual color control

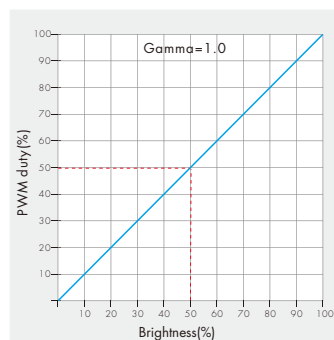
Each channel can supply up to 120W(@24V) and white balance can be controlled as such:

| | | | |
|--------------------|---------------|---------------|---------------|
| Color temperature | Cool white | Neutral white | Warm white |
| Power distribution | WW=0W,CW=120W | WW=60W,CW=60W | WW=120W,CW=0W |

Linear dual color tuning



Dimming curve



Installation Precautions

1. The products shall not be stacked, the distance should be $\geq 20\text{cm}$, so as not to affect lifespan of the products due to poor heat dissipation.
2. The product shall not be installed close to the switching power supply with an interval of $\geq 20\text{cm}$ to avoid radiation interference of the switching power supply.
3. The installation height shall be $\geq 1\text{m}$ from the floor to avoid shortening the remote control distance due to too weak reception signal.
4. The products are not allowed to be close to or covered by metal objects, with an interval of $\geq 20\text{cm}$ to avoid signal attenuation and shorten the remote distance.
5. Avoid installation at the corner of the wall or the corner of the beam, with an interval of $\geq 20\text{cm}$ to avoid signal interference.