

LD1051528

RF Single Color Dimmer

Single color dimmer can achieve stepless and smooth dimming. It adopts both knob control manner and remote control. According to actual needs, users can transfer the light to the appropriate brightness.

Product Feature

- Working voltage: DC12-24V, Max. output current up to 25A, 300W/12V, 600W/24V.
- RF frequency 2.4GHz, Wireless-sync-control.
- Supports both manual knob dimming and remote control.
- PWM frequency is adjustable (6 levels: 500Hz,1KHz, 2KHz,4KHz, 7.8KHz, 15.6KHz).
- Adopt the knob control manner, soft dim function, display the brightness.
- According to actual needs, users can transfer the light to the appropriate brightness.
- Short-circuit protection.

Technical Parameters

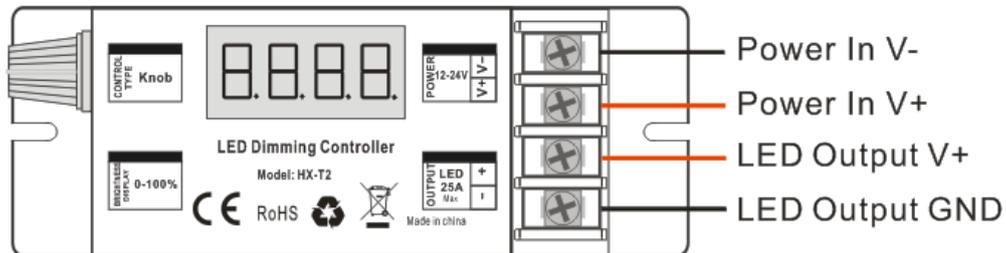
Working temperature	-20-60°C	Supply voltage	DC12-24V
Output	1 channel	Static power consumption	<1W
Max. output current	25A	Max. output power	300W/12V; 600W/24V
Net weight	65g	External dimension	L103*W40*H24 mm
Gross weight	90g	Packing size	L140*W48*H35mm
Memory function	Yes	PWM frequency	2KHz (factory default),500Hz,1KHz, 4KHz, 7.8KHz, 15.6KHz
Max. output current	PWM<=2KHz: 25A PWM=7.8KHz: 15A PWM=15.6KHz: 10A	Max. output power	PWM<=2KHz:300W/12V; 600W/24V PWM=7.8KHz:180W/12V; 360W/24V PWM=15.6KH:120W/12V; 240W/24V

Control method

This product supports both manual knob dimming and remote control dimming.

Dimmer can be controlled by any one compatible remote as factory default; remote control delivered with unique RF code as factory default; if unique-control or zone-setting is needed, please matching the code before installation and using. Please refer to the corresponding remote-control manual for operation instruction in detail.

Connection port instruction



Direction for use

- Connect the load wire at first, followed by the power wire; Please ensure short circuit can not occur between connecting wire before turning on the power;

- Adopt rotary button, function as follows:

Clockwise rotation to brighten up brightness to 100% as the maximum; Counterclockwise rotation to dim down the brightness to 0% as the minimum.

- PWM display: P005=500Hz; P010=1KHz; P020=2KHz (factory default); P040=4KHz, P078=7.8KHz; P156=15.6KHz.

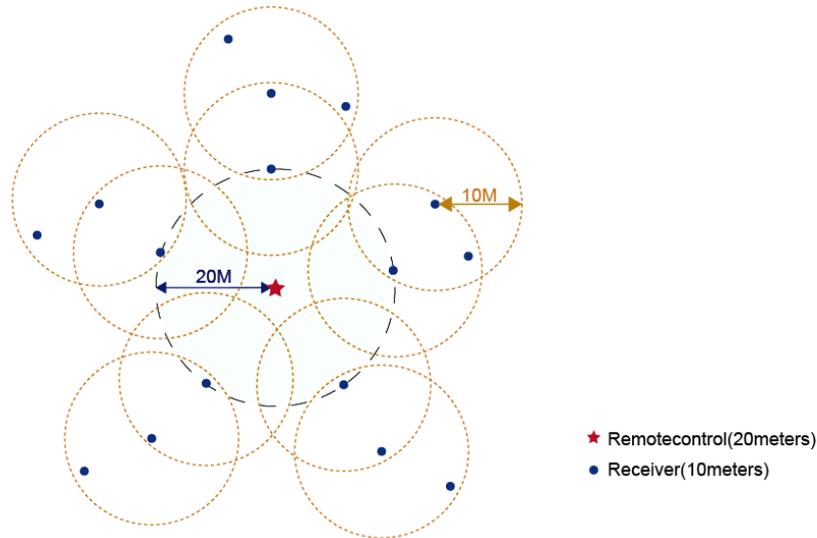
PWM Frequency Adjustment operation (by HX-RFBT10-2.4G remote control only) :

Press and hold the remote control "Set" for 10 seconds after switch off the dimmer by remote control(the dimmer is in off state) within 10 seconds, display will show as: P***. Means enter "PWM adjusting" state. Press Brightness+/- keys to adjust the PWM frequency, there is 6 levels optional, pressing "Set" button again to save it after finish the setting operation. Then the dimmer return to power on state.

Please note: PWM setting operation should be finished within 1 minute, Will automatically exit PWM adjusting status without save it after 60 seconds.

Wireless-synchronization function

Receivers will transmit the control signals from the remote control and self-inspection the work statuses for each other, so multiple receivers in same zone will wireless-sync-work completely.

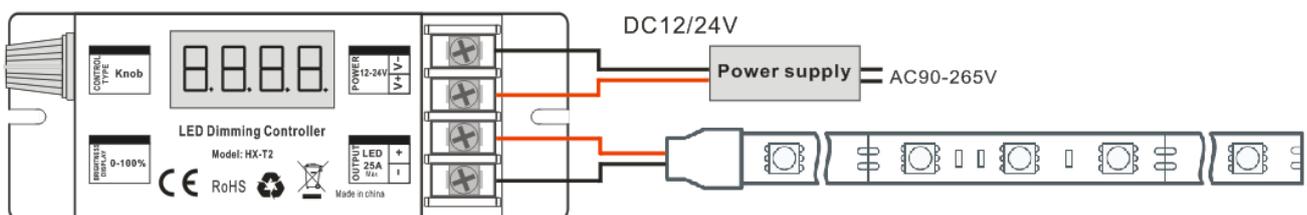


Compatible remote control

Item : LD1051530	Item : LD1051529	Item : HX-RFBT-2.4G

Typical Applications

Application Circuit:



Precautions

- 1.The working voltage is DC12V~24V, and it must not be connected to other voltages;
- 2.Ensure that the wiring is correct and no short circuit before power-on;
- 3.It supports wireless-sync-dimming by remote control, please refer to the remote control setting manual for details;
- 4.PWM dimming frequency is adjustable via remote control (HX-RFBT10-2.4G only). The maximum output load power corresponding to different PWM frequencies is different. Please do not overload it.