

RF DIM

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FC CE RoHS RED

Input and Output		Dimming data		Safety and EMC			
Input voltage	5-36VDC	Input signal	RF 2.4GHz + Push Dim	EMC standard	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4		
Input current	8.5A	Control distance	30m(Barrier-free space)		Safety standard	EN 61347-1:2015+A1:2021 EN 61347-2-13:2014+A1:2017	
Output voltage	5-36VDC	Dimming gray scale	4096 (2^12) levels	Radio Equipment		ETSI EN 300 328 V2.2.2	
Output current	1CH,8A	Dimming range	0 -100%		Certification		CE RED
Output power	40W/96W/192W/288W (5V/12V/24V/36V)	Dimming curve	Logarithmic	Warranty and Protection		5 years	
		PWM frequency	2000Hz (default)		Protection		Reverse polarity Over-heat Overload Short circuit
Output type	Constant voltage	Environment					
Package		Operation temperature	Ta: -30℃ ~ +55℃				
		Case temperature (Max.)	Tc: +85℃				
Size	L114 x W38 x H26mm	IP rating	IP20				
Gross weight	0.052kg						

Technical drawing of the LED indicator showing front, top, and side views with dimensions and labels.

Front View Labels:

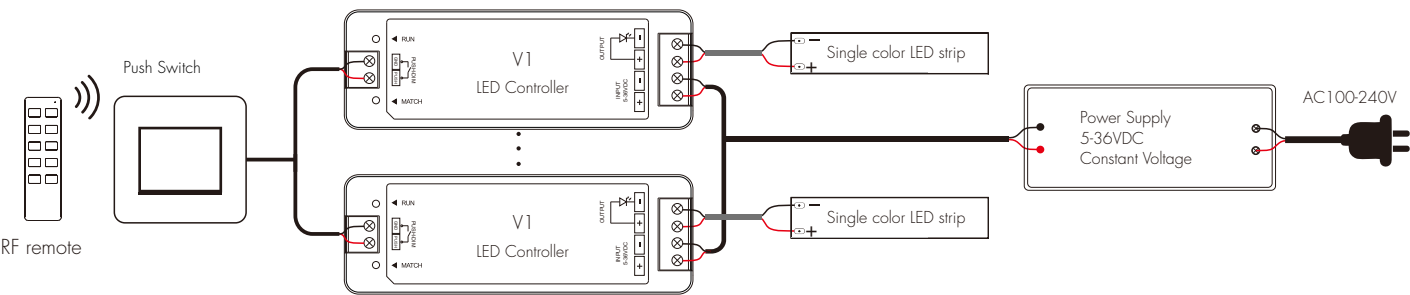
- LED indicator
- Push switch com
- Push switch in
- Installation rack
- Match key
- LED output -
- LED output +
- Power input -
- Power input +
- Installation rack

Dimensions:

- Height: 33mm
- Width: 97mm
- Thickness: 18mm

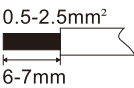
Delete:
Switch off the power of the receiver, then switch on power, repeat again.
Immediately short press on/off key (single zone remote) or zone key (multiple zone remote)
5 times on the remote. The light blinks 5 times means all matched remotes were deleted.

Wiring Diagram



Wire Preparation:

- 1. The wiring can be solid or stranded with a cross-sectional area of 0.5 to 2.5 mm². Conventional 1 mm² 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.



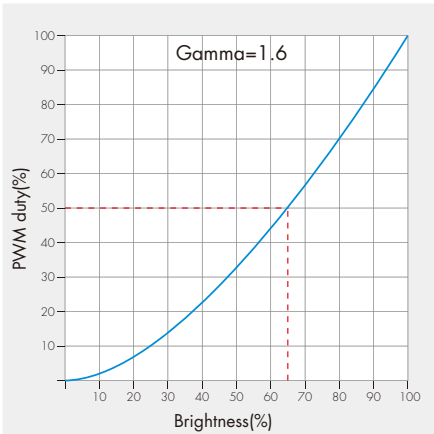
Note: The output power of a constant voltage power supply should be at least 1.2 times that of the output load (light strip), otherwise the full power output of the load can easily cause automatic flickering or shaking of the light.

Push Dim Function

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

- **Short press:** Turn on or off light.
- **Long press (1-6s):** Press and hold to step-less dimming. With every other long press, the light level goes to the opposite direction.
- **Dimming memory:** Light returns to the previous dimming level when switched off and on again, even at power failure.
- **Synchronization:** 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 25 pieces, The maximum length of the wires from push to controller should be no more than 20 meters.

Dimming Curve



Light on/off fade time

Long press match key 5s, then short press match key 3 times, the light on/off time will be set to 3s, the indicator light blink 3 times.

Long press match key 10s, restore factory default parameter, the light on/off time also restore to 0.5s.

Malfunctions Analysis & Troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. Nopower . 2. Wrongconnection or insecure .	1. Check the power. 2. Check the connection.
Uneven intensity between front and rear,with voltage drop	1. Output cable is too long. 2. Wire diameter is too small. 3. Overload beyond power supply capability. 4. Overload beyond controller capability.	1. Reduce cable or loop supply. 2. Change wider wire. 3. Replace higher power supply. 4. Add power repeater.
No response from the remote	1. The battery has no power. 2. Beyond controllable distance. 3. The controller did not match the remote.	1. Replace battery. 2. Reduce remote distance. 3. Re-match the remote.

Installation Precautions

- 1. The products shall not be stacked, the distance should be ≥ 20 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 ≥ 20 cm to avoid radiation interference of the switching power supply.
- 3. The installation height shall be ≥ 1 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 ≥ 20 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 ≥ 20 cm to avoid signal interference.