

Dimmer for LED strips

Model No.: CR1-G1D-B4A

1 Channel/Step-less dimming/Wireless remote control/Push Dim/Multiple protection



Features

- 4096 levels 0-100% dimming smoothly without any flash.
- Match with RF 2.4G dimming remote control.
- One RF controller accept up to 10 remote control.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance.

Dimming data

- Synchronize on multiple number of controllers.
- Connect with external push switch to achieve on/off and 0-100% dimming function.
- Light on/off fade time 3s selectable.
- Over-heat / Over-load / Short circuit protection, recover automatically.

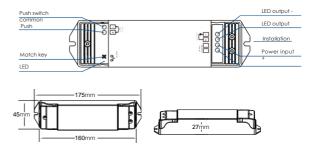
Technical Parameters

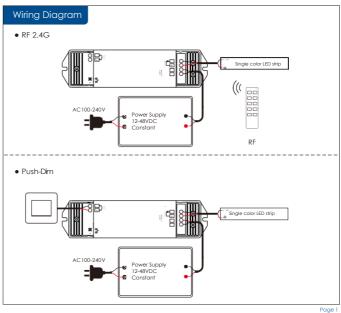
Input and Output		
Input voltage	12-48VDC	
Output voltage	12-48VDC	
Output current	15A@12/24V 10A@36/48V	
Output power	180W@12V 360W@24V 360W@36V 480W@48V	
Output type	Constant voltage	
Environment		
Operation temperature	Ta:-30°C ~ +55°C	
Case temperature (Max.)	Tc:+85°C	
Warranty and Protection		
Warranty	5 years	
Protection	Reverse polarity Over-heat Over-load Short Circuit	

input signal	RF 2.4GHz + Push Dim	
Control distance	30m(Barrier-free space)	
Dimming gray scale	ing gray scale 4096 (2^12) levels	
Dimming range	0 -100%	
Dimming curve	Logarithmic	
PWM Frequency	500Hz (default)	
Safety and EMC		
EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4	
Safety standard(LVD)	EN 62368-1:2020+A11:2020	
Radio Equipment(RED)	ETSI EN 300 328 V2.2.2	
Certification	CE,EMC,LVD,RED	
Weight		
Net weight	0.099kg	
Gross weight	0.116kg	

DE 2 4CHz + Duch Dim

Mechanical Structures and Installations





User Manual Ver



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 on 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 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 5 times on theremote. The light blinks 5 times means all matched remotes were deleted.

Application notes

All the receivers in the same zone.



RF remote 30m

Auto-transmitting: One receiver can transmit the signals from the remote to another receiver within 30m, as long as there is a receiver within 30m, the remote control distance can be extended.

Auto-synchronization: Multiple receivers within 30m distance can work synchronously when they are controlled by the same remote.

Receiver placement may offer up to 30m communication distance. Metals and other metal materials will reduce the range. Strong signal sources such as WiFi routers and microwave ovens will affect the range.

We recommend for indoor applications that receiver placements should be no further apart than 15m.

Push Dim Function

The provided Push-Dim interface allows for a simple dimming method using commercially available nonlatching (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:

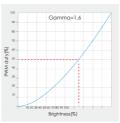
If more than one controller connected to the same push switch, do a long press for more than 10s, then the system is synchronized and all lights in the group dim up to 100%.

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

Logarithmic 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

Malfunctions Analysis & Trouble Shooting

Malfunctions	Cause s	Troubleshooting
No light	No power. Wrong connection or insecure.	Check the power. Check the connection.
Uneven intensity between front and rear, with voltage drop	Output cable is too long. Wire diameter is too small. Overload beyond power supply capability. Overload beyond controller capability.	Reduce cable or loop supply. Change wider wire. Replace higher power supply. Add power repeater.
	1. The battery has no power.	Replace battery.

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