

Radiar DP5

5 Channel PWM Controller



Product Overview

Radiar DP5 is a 5 channel constant voltage dimming module. It provides excellent color adjustment performance and is based on manual input/automated control to adjust LED light color and brightness.

It can be monitored and controlled through mobile devices or cloud platforms.

The Lumos Controls ecosystem comprises controllers, sensors, switches, modules, drivers, gateways, and analytical dashboards. It is listed by the Design Lights Consortium (DLC), qualifying it for energy conservation incentive programs and rebates by utility companies

Specifications

Electrical

Specifications	Value
Input voltage	12-48VDC
Input current	<8A
Maximum load power	189W
Power loss	<3W
Output voltage	12-48VDC
Output current	<5A

Features

- Multiple channel configurations for different applications
- BLE 5.0 based non-flooding intelligent communication
- With overload protection
- Zero downtime Over-the-Air (OTA) firmware updates

Bluetooth

Specifications	Value
Frequency range	2400-2483MHz
RF transmit power	8dBm
RF receiving power	-85dBm

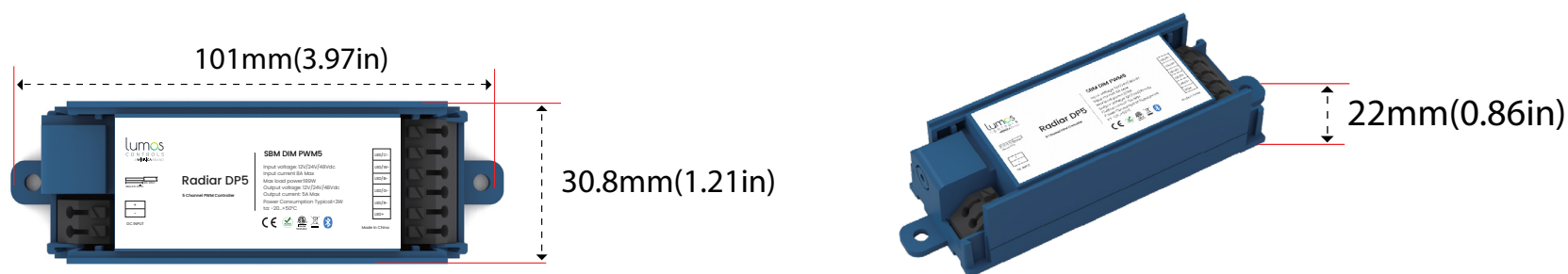
Environmental

Specifications	Value
Ambient temperature	-20 to 50°C (-4 to 122°F)
Storage temperature	-40 to 80°C (-40 to 176°F)
Relative humidity	5% to 85%

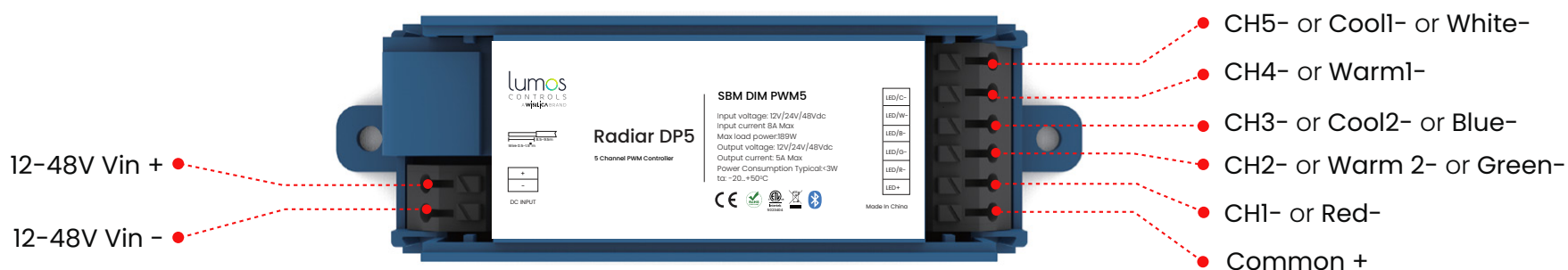
Mechanical

Specifications	Value
Dimension	101 x 30.8 x 22mm (3.97 x 1.21 x 0.86in)

Product Dimensions



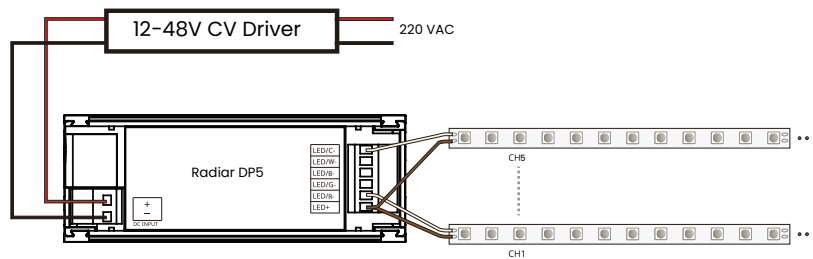
Connector Description



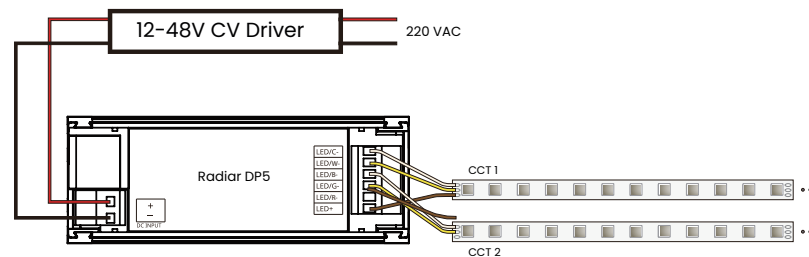
Recommended load power table for different flexible light strips

Flexible LED strip	Max Load rating @12VDC	Max Load rating @24VDC	Max Load rating @48VDC
Single channel flex	90W Total	180W Total	300W Total
5 independent channels	90W Total(Upto 60W per channel)	180W Total(Upto 120W per channel)	300W Total(Upto 200W per channel)
Single CCT strip	90W Total	180W Total	300W Total
2 CCT strips	90W Total(Upto 60W per channel)	180W Total(Upto 120W per channel)	300W Total(Upto 200W per channel)
RGB flex	90W Total(Upto 60W per channel)	180W Total(Upto 120W per channel)	300W Total(Upto 200W per channel)
RGBW flex	90W Total(Upto 60W per channel)	180W Total(Upto 120W per channel)	300W Total(Upto 200W per channel)

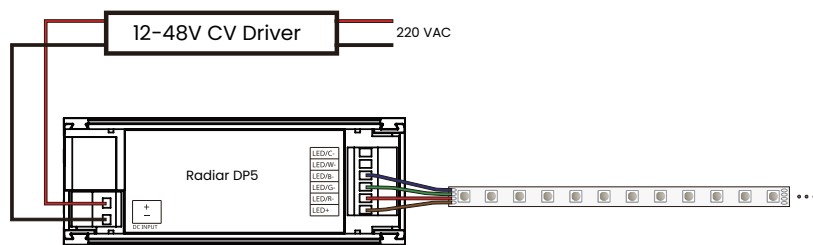
Wiring



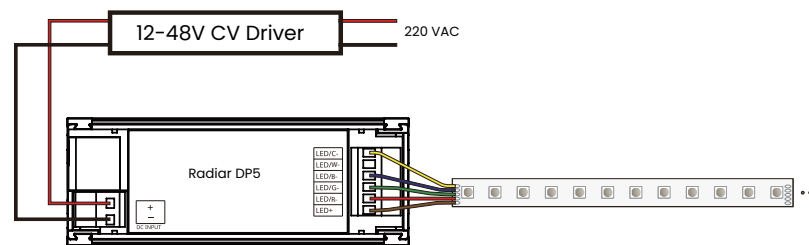
For 5 independent dimming channels



For 2 Tunable White control



For RGB control



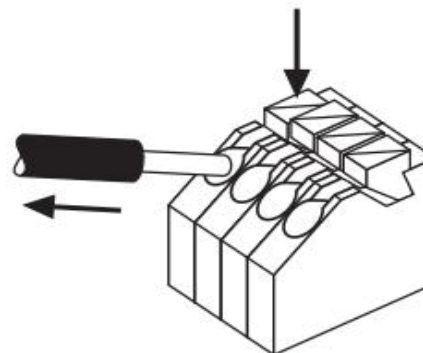
For RGBW control

Wiring type and cross section

The wire can be a copper stranded wire with a rubber sheath, or a cross-section of 0.75–1.5 mm² the solid line. Stripped from the wire 8.5–9.5mm Insulation layer to ensure perfect contact with the plug-in terminal. Use only one wire per patch terminal.

How to pull out the wire

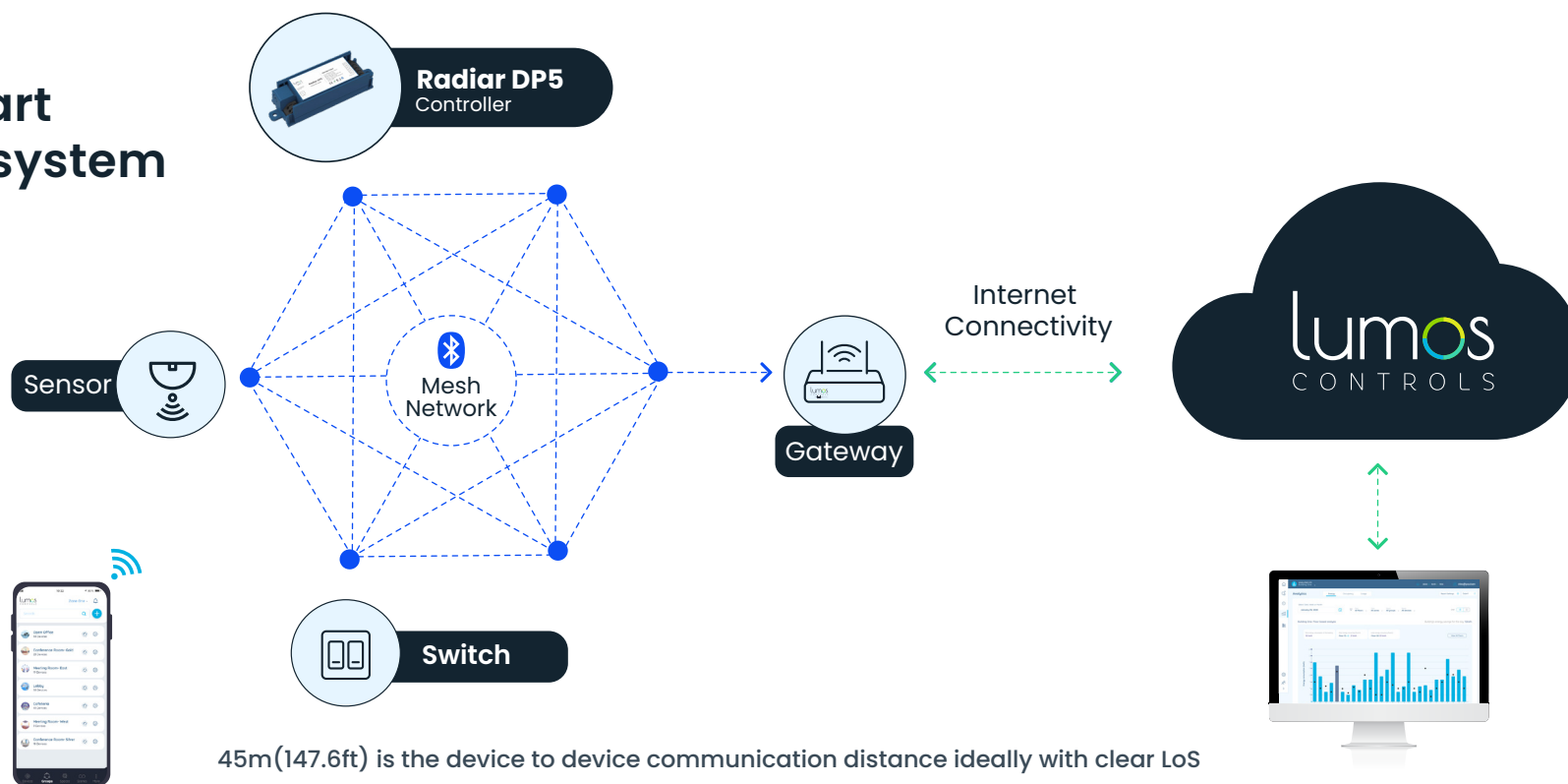
Press down the "push button" and remove the cable from front.



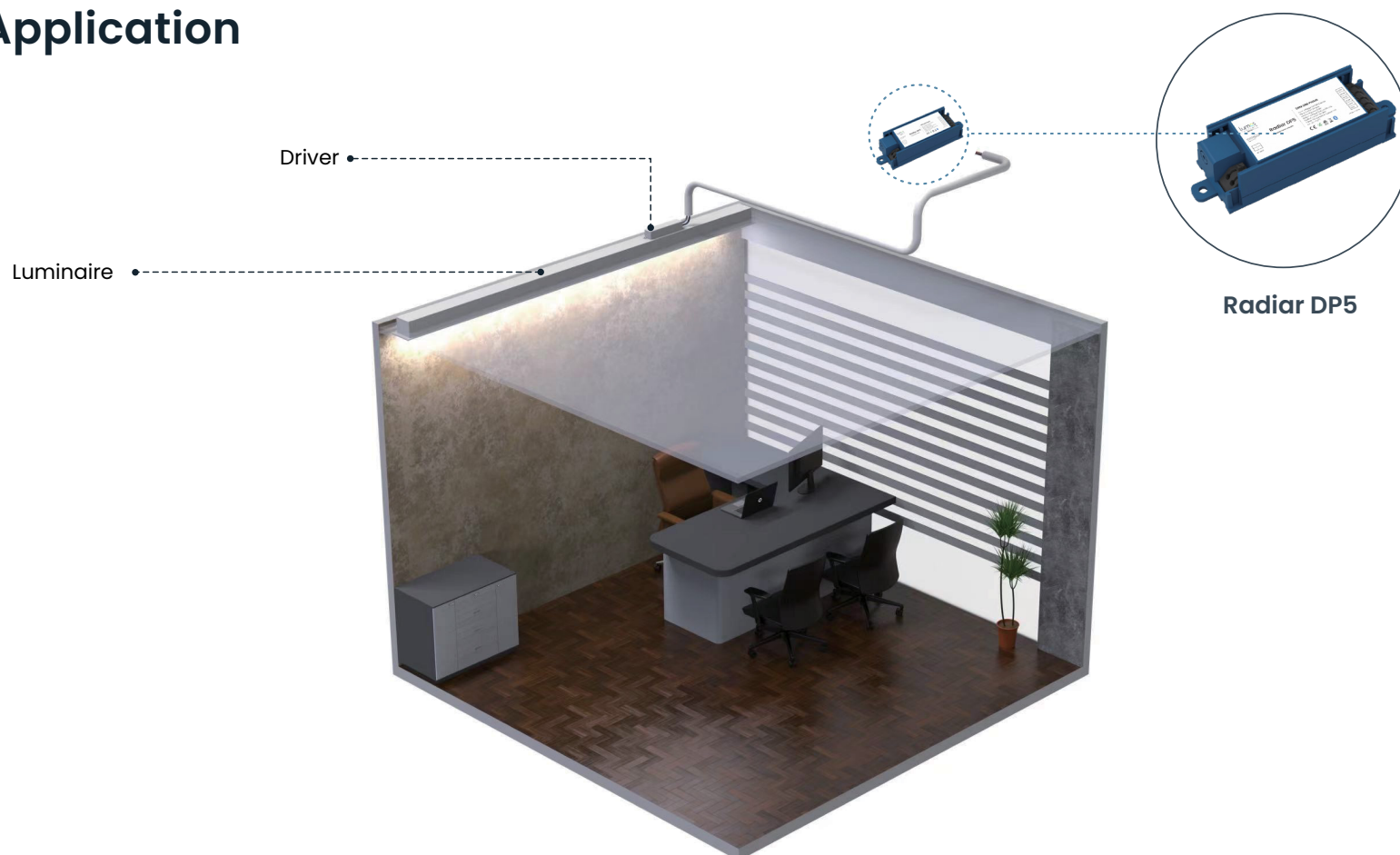
Wiring guide

- ▶ All wiring must be as short as possible to ensure good EMI
- ▶ Secondary switching is not allowed
- ▶ Incorrect wiring can destroy LED module

Smart Ecosystem



Application



Ordering Information

Product Code	Product Name	Product Description	Communication	Voltage Rating
SBM DIM PWM5	Radiar DP5	5 Channel PWM Controller	BLE 5.0	12-48VDC

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