

BL controls BLE node C4

Bluetooth Controller
4 Channels



Description

BL controls BLE node C4 is a Bluetooth enabled four channel PWM dimmer for constant voltage LED loads, such as LED strips and constant voltage LED modules. It is connected between a 12-24 VDC power supply and the constant voltage LED load.

BL controls BLE node C4 can control up to four channels making it an ideal partner for RGBW and tunable white (TW) applications. The maximum combined output current is 6 A which can be freely divided between 1-4 channels. BL controls BLE node C4 is protected against overvoltage, overcurrent and short circuit situations.

BL controls BLE node C4 can be controlled with Casambi app which can be downloaded free of charge from Apple App Store and Google Play Store.

Different BL controls BLE node C4 enabled products can be used from a simple one luminaire direct control to a complete and full featured light control system where up to 250 units form automatically an intelligent mesh network.

Installation

Connect a constant voltage 12-24 VDC power supply to the input connector. Make sure not to use a constant current LED driver and make sure that the cable polarity is correct.

The product has one shared positive output connector (+) and each of the four channels have its own negative connector (-). This is the most typical case with multichannel LED strips. Connect the LED load wires accordingly.

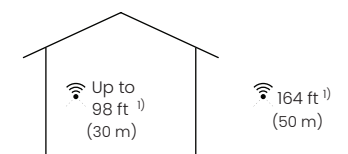
BL controls BLE node C4 can be configured having different types of outputs, such as 4 channel RGBW, 3 channel RGB and 2 channel TW. Also, it is possible to configure 1-4 jointly and individually dimmable channels. These configurations can be made by the end user from Casambi App.

As default, BL controls BLE node C4 is delivered with RGBW configuration.

BL controls BLE node C4, as any other Bluetooth product, should not be placed in a metal enclosure or next to large metal structures. Metal will effectively block all radio signals which are crucial to the operation of the product

To control your lights with the BL controls BLE node C4 controller please download the Casambi App available for Android (Google Play) and iOS (App Store) and follow the instructions on the manual attached.

Range



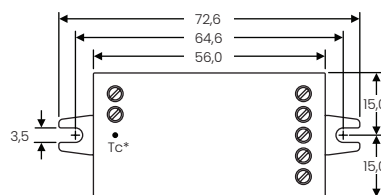
BLE node C4 uses mesh network technology so each BLE node C4 acts also as a repeater. Longer ranges can be achieved by using multiple BLE node C4 units.

¹⁾ Range is highly dependant on the surrounding and obstacles, such as walls and building materials.



Compatible devices:
iPhone 4S or later
iPad 3 or later
iPod Touch 5th gen or later
Android 4.4 KitKat or later devices
produced after 2013 with full BT 4.0 support

Dimensions



* Tc point is on bottom side

Wire info:
Solid and stranded:
0,75-1,5 mm²/14-22 AWG
Strip length: 6-7 mm
Tightening force: 0,4 Nm

Technical data

Input	
Voltage range:	12-24 VDC
Max. input current:	6 A
No-load standby power:	< 0,3 W
Output	
Output voltage:	same as input voltage
Max. output power:	144 W @ 24 VDC 72 W @ 12 VDC
Max. output current:	6 A (can be freely divided between the channels)
Min. load requirement:	0 W
Dimming method:	Pulse Width Modulation (PWM)
Radio transceiver	
Operating frequencies:	2,4-2,483 Ghz
Maximum output power:	+4 dBm
Operating conditions	
Ambient temperature, ta:	-20...+45°C
Max. case temperature, tc:	+75°C
Storage temperature:	-25...+75°C
Max. relative humidity:	0..80%, non-cond.
Connectors	
Wire range, solid & stranded:	0,75 - 1,5 mm ² 14 - 22 AWG
Wire strip length:	6 - 7 mm
Tightening force:	0,4 Nm
Maximum input cable length:	3 m
Mechanical data	
Dimensions:	72,6 x 30,0 x 18,0 mm
Weight:	23 g
Degree of protection:	IP20 (indoor use only)

Disposal Instructions

In line with EU Directive 2002/96/EC for waste electrical and electronic equipment (WEEE), this electrical product must not be disposed of as unsorted municipal waste.

Please dispose of this product by returning it to the point of sale or to your local municipal collection point for recycling.

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