



Description

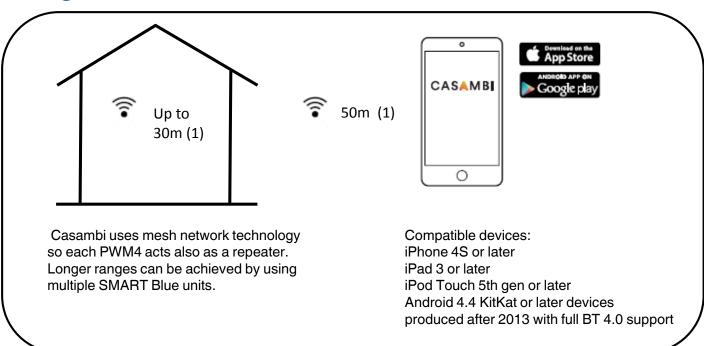
PWM4 is a Bluetooth controllable, four channel PWM dimmer for constant voltage LED loads, such as LED strips and constant voltage LED modules. It is connected between a 12-24 V DC power supply and the constant voltage LED load.

PWM4 can control up to four channels making it an ideal partner for RGBW, RGB and tunable white (TW) applications. The maximum combined output current is 6 A which can be freely divided between 1 -4 channels. PWM4 comes with protection against overvoltage, overcurrent and short circuit situations.

PWM4 can be controlled by the Casambi app which can be downloaded free of charge from Apple App Store and Google Play Store.

There are different SMART Blue products available – from ones for direct control of one simple luminaire to complete and fully featured light control systems where up to 127 units automatically form an intelligent mesh network.

Range



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



Installation

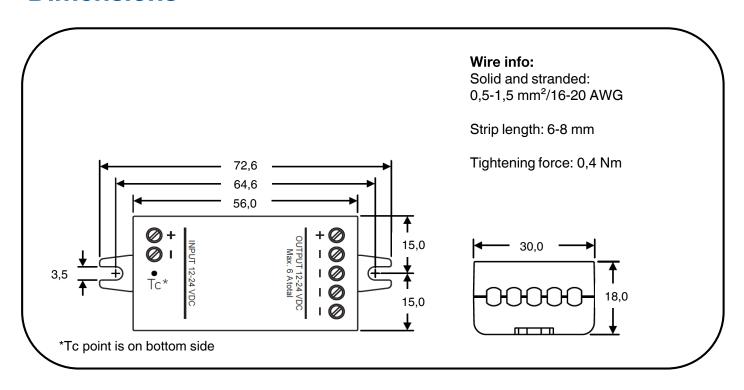
Connect a constant voltage power supply 12-24V DC to the input terminals. Make sure that you do not use a constant current power supply and make sure the polarity is correct.

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

PWM4 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 as well as individually dimmable channels. These configurations can be made in the app. How to do this, you can find out in the "Profile Guide" from our Radium website.

The PWM4, such as any other SMART Blue product, should not be placed in a metal enclosure or next to large metal structures. Metal will effectively block all radio signals which are crucially important for the operation of the product.

Dimensions





Technical Data

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Voltage range: 12-24 VDC

Max. Input current: 6A

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: 6A (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: $0.75 - 1.5 \text{ mm}^2$ 14 - 22 AWG

Wire strip length: 6 – 7 mm

Tightening force: 0,4 Nm / Lb-in

Mechanical data

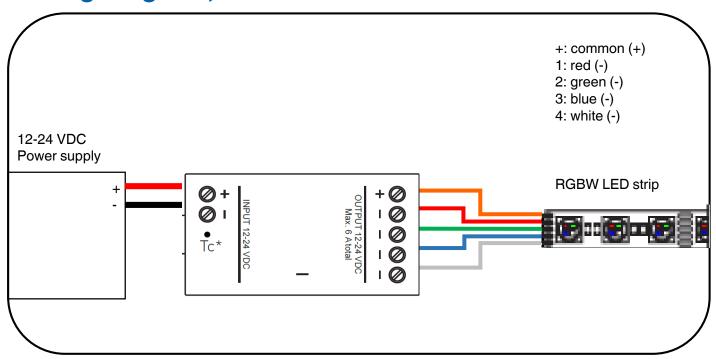
Dimensions: 72,6 x 30,0 x 18,0 mm

Weight: TBD

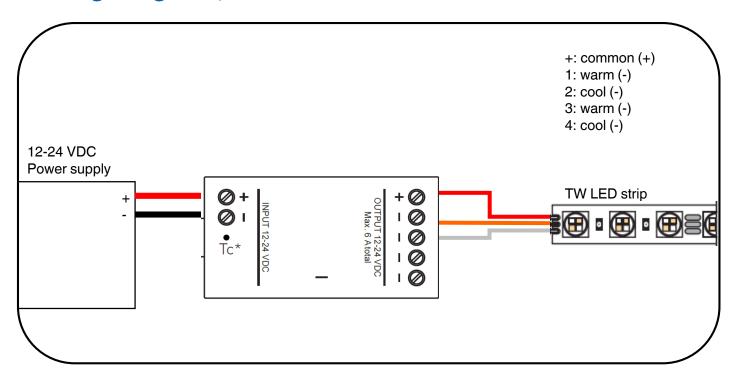
Degree of protection: IP20 (indoor use only)



Wiring diagram, RGBW

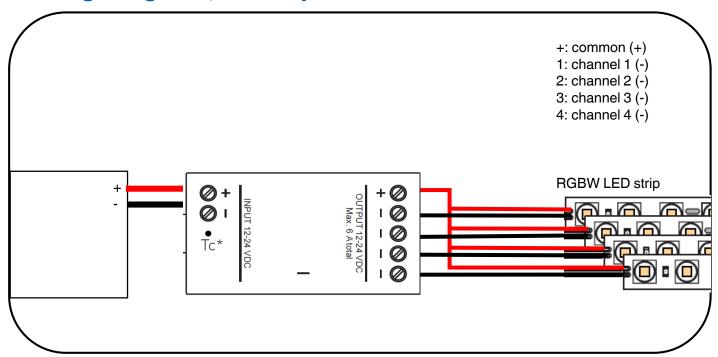


Wiring diagram, tunable white





Wiring diagram, 1-4 separate channels



Disposal Introductions

In line with EU Directive 2002/96/EC (recast 2012/19/EU) on waste electrical and electronic equipment (WEEE), this electrical product must not be disposed of as unsorted municipal waste.

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

This document is subjected to changes and will be updated at irregular intervals! Each user is responsible for the validity and actuality of his / her own document. Upon the publication of this document, all previous editions cease to be valid and shall be destroyed.

PWM4 EN V2.0