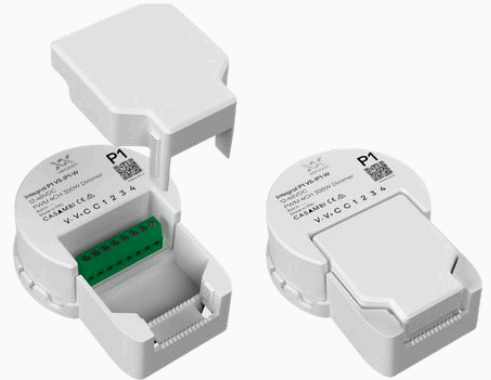


CBU-MP1

Casambi 4 Channel Constant Voltage Dimmer

- // Bluetooth mesh controller for tunable white or RGBW LED tape
- // Wirelessly programmable via Casambi app, to create different coloured scenes and automations
- // Requires a separate non-dim power supply - 12-48v
- // Screw terminals
- // Can be provided with strain relief installation box if required
- // Compatible with all other Casambi devices, to form a network



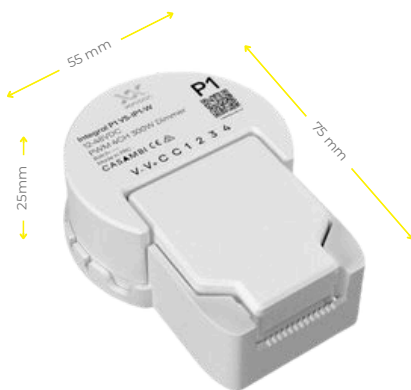
Construction

The CBU-MP1 is a Casambi-enabled dimmer designed for constant voltage LED loads, including LED strips and constant voltage LED modules. It functions as a dimming controller between a 12-48v DC power supply and the LED load.

With the ability to manage up to four channels, the CBU-MP1 is a perfect fit for RGBW and tunable white (TW) applications. The maximum total output current is 16A, which can be divided among the four channels with a maximum of 12.5A per channel.

Different fixture profiles can be loaded on the CBU-MP1 for different functionality, and the built-in strain relief allows multiple installation configurations also.

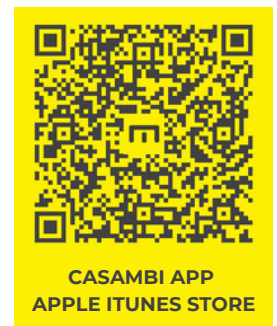
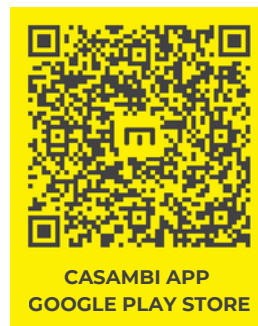
Dimensional Drawings



Product Code	Colour	Dimensions
CBU-MP1	White	75mm x 55mm x 25mm

Technical Specifications	
Input Power	12-48v DC, max 16A
Max output power	380W @ 24/48v, 300W @ 12v. Output voltage is the same as input voltage
Dimming method	Pulse Width Modulation (PWM)
Radio operation frequencies	2.4 GHz band
Wireless Range	Up to 98m outside, or 180m with LR
Ambient temperature	0...+50°C
Cable - solid/stranded	0,75 - 1,5 mm2, loop in/loop out
Warranty	5 years
Ingress Protection	IP20

Casambi uses Bluetooth mesh network technology, so each Casambi unit, or Casambi Ready product, acts also as a repeater. Longer ranges can be achieved by using any Casambi unit as a repeater. Range is highly dependent on the surrounding obstacles, such as walls and building materials.



CBU-MP1

Installation Instructions

CBU-MP1, as any other Casambi product, should not be placed in a metal enclosure or next to large metal structures. Metal will limit all Bluetooth signals which are essential to the operation of the product.

Input Wiring

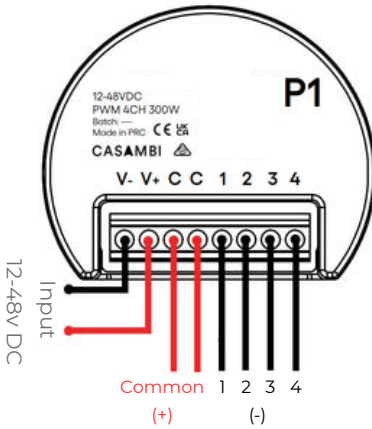
Connect a constant voltage 12/24/48V DC double insulated power supply to the input connector. Make sure not to use a constant current LED driver, and make sure that the cable polarity is correct. Driver wattage should be rated to the load with a buffer of at least 10%.

Output Wiring

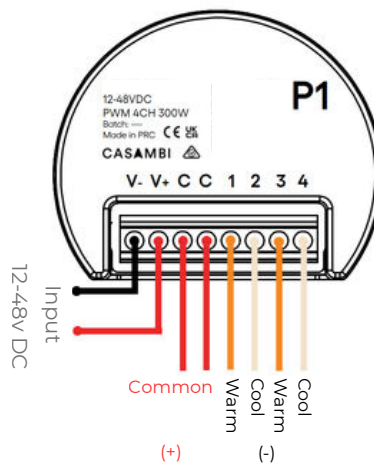
The product has two shared positive output connector (+) and each of the four channels have its own negative connector (-). Connect the LED load wires accordingly. Please note, some LED strips will be permanently damaged if reverse polarity is applied.

DIAGRAMS

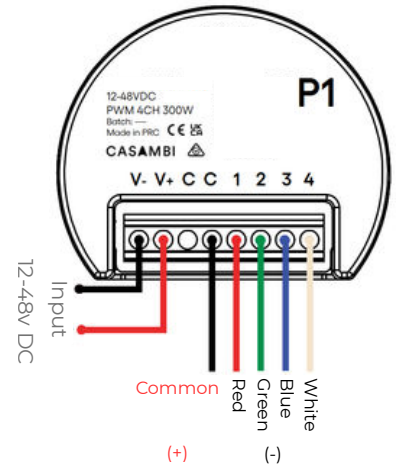
FOUR
INDIVIDUAL
CHANNELS



TUNABLE WHITE



RGBW



NOTE: If necessary a larger non-dim driver can provide power to more than one MP1 at a time.

NOTE: The CBU-MP1 can also be installed in junction boxes without the strain relief.

