# CASAMBI controller - 2 channels

Ref: 41.097

Features:

- Command: App Casambi.
- Control: dimmer white and Tunable White.
- Constant voltage variant for common anode applications.
- Voltage outputs for R loads.
- Adjusting the brightness of white light, monochromatic colour and CCT for Tunable White light
- Adjusting the brightness up to completed OFF.
- Typical efficiency >95%.
- Memory function.
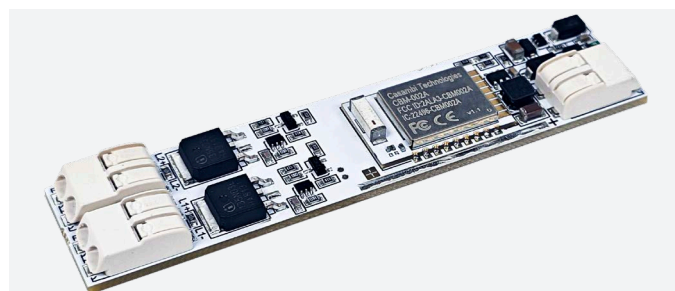
Technical characteristics

Technical data

Power	48W (12V) / 96W (24V)
Voltage	12 / 24V
Supply voltage min. / max.	10.8V / 26.4V
Input current	max. 4A
Channels	4 (2 positive and 2 negative)
Output voltage	= Vin
Output current	4A
Power loss in stand by mode	<500mW
D-PWM dimming frequency	600Hz
Operating frequencies	2,400 … 2,483 GHz
Maximum output power	4 dBm
D-PWM resolution	833 step
D-PWM range	0 – 100%
Degree of protection	IP20

Services

Tone regulation	Yes
Type of load	R
Apt for	Indoor
Fixing	Bi-adhesive
Over voltage protection (OVP)	Yes
Reverse polarity protection (RVP)	Yes
Input fuse protection (IFP)	Yes

Temperatures and operating conditions

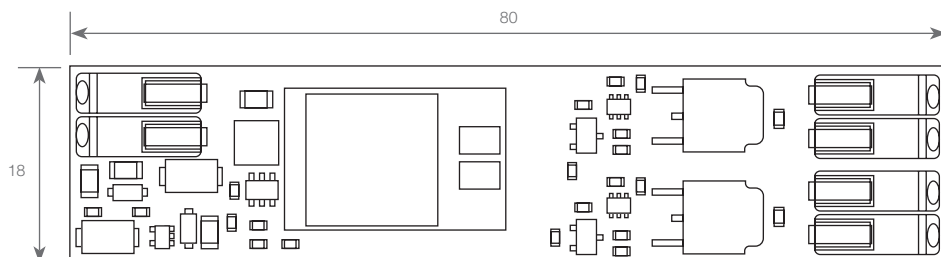|	
Storage temperature	-25°C / +60°C
Ambient temperature	-10°C / +40°C
Maximum Temperature at Tc	45°C

Assembly and safety information

Applied standards:

- EN 61347-1
- EN 55015
- EN 61547

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Dimensions and weight

Length	80mm	Height	10.5mm
Width	18mm	Weight	9g

Wiring

Wiring	0,2 … 0,75mm² – 24 … 18 AWG	Wire preparation length	7 / 10mm

Installation:

To set the product, follow the instructions as below:

• Fix the Casambi dimmer to the aluminium profile with the provided thermal Bi-adhesive.

• Connect the led in the output of the dimmer

• Connect the power supply in the input of the dimmer

The Casambi dimmer as with other Casambi products, 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.

Wiring diagram: 1-2 separate channels
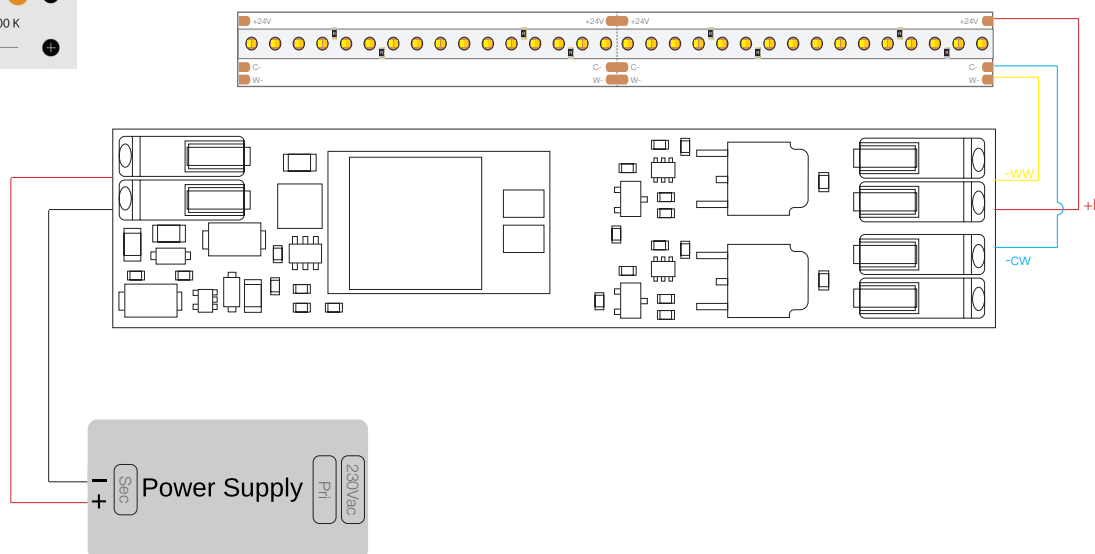
Channel 1: dimmer

Channel 2: dimmer

Dimmer	100.0 %
Dimmer	100.0 %
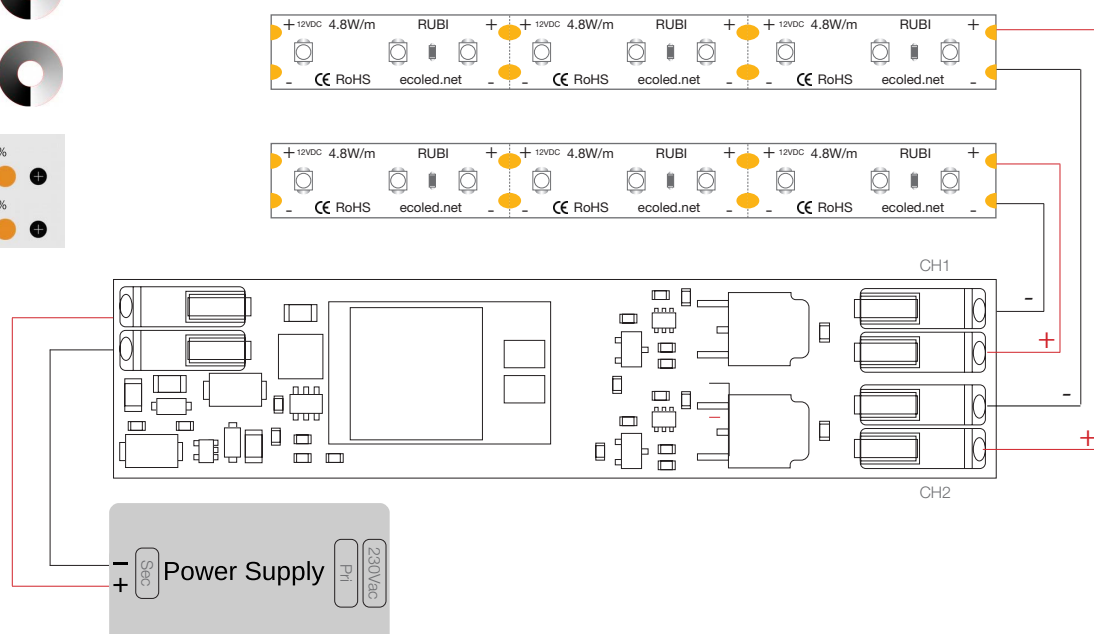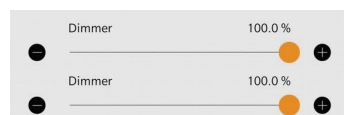
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Wiring diagram: 1-2 separate channels

Channel 1: dimmer

Channel 2: colour temperature

Technical note:

- Installation:
    - Installation and maintenance must be performed only by qualified personnel in compliance with current regulations.
    - The product must be dissipated correctly.
    - Keep the circuits separate at 230V (LV) and the circuits not SELV from circuits to low voltage (SELV) and from any connection with this product. It is absolutely forbidden to connect, for any reason whatsoever, directly or indirectly, the 230V mains voltage to the bus or to other parts of the circuit.
- Power supply:
    - For the power supply use only a SELV power supplies with limited current, short circuit protection and the power must be dimensioned correctly. In case of using power supply with ground terminals, all points of the protective earth (PE = Protection Earth) must be connected to a valid and certified protection earth.
    - The connection cables between the power source "low voltage" and the product must be dimensioned correctly and they should be isolated from all wiring or parts with voltage not SELV. Use double insulated cables.
    - Dimension the power supply for the load connected to the device. If the power supply is oversized compared with the maximum absorbed current, insert a protection against over-current between the power supply and the device.
- Cable outputs:
    - The length of the connection cables between the product and the led module must be less than 10m; the cables must be dimensioned correctly and they should be isolated from all wiring or parts with voltage not SELV. It is suggested to use double insulated shielded and twisted cables.
- WARNING:
    - For optional functionality of the Bluetooth signal, do not put the device into metal or aluminium boxes and do not shield the device.
    - 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 signal which are crucial to the operation of the product.

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