CBU-TED

Casambi Trailing Edge Phase Dimmer

- // Bluetooth mesh controller incandescent lamps, dimmable LED lamps and dimmable LED control gear
- // Wirelessly programmable via Casambi app, to create different scenes and automations in conjunction with other Casambi devices
- // Different profiles offer differing dimming curves, or alternatively presence sensing via dedicated sensor
- // Push-in terminals
- // Can be provided with installation box if required
- // Compatible with all other Casambi devices, to form a network

Construction

CBU-TED is an innovative trailing-edge phase-cut dimmer designed to cater to your specific lighting needs. It is compatible with incandescent lamps, dimmable LED lamps, and dimmable LED control gear. You can install it behind a conventional wall switch, inside a luminaire, or into a ceiling outlet box. It is essential to adhere to the maximum allowable ambient temperature to ensure optimal performance.

With a capacity to control up to 100W at 230v AC, CBU-TED comes with overcurrent and overtemperature protection features. You can conveniently manage it with the Casambi app, available on iOS and Android devices.
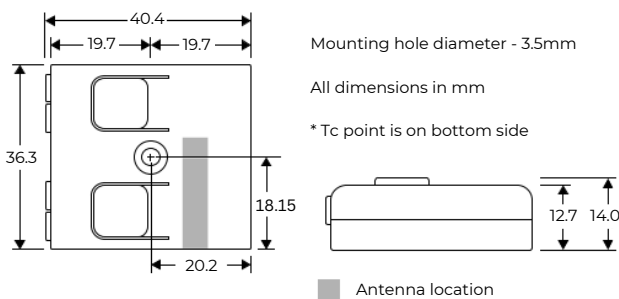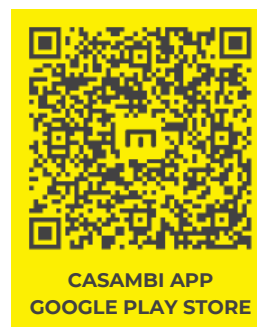
Product Code	Colour	Dimensions
CBU-TED	White	40.4mm x 36.3mm x 14.0mm

Technical Specifications	
Input	85-240 v AC, 50-60 Hz
Output	0.43A, 100W at 240v AC
Max inrush current	10A, 100ms
Dimming method	Trailing edge phase cut
Radio operation frequencies	2400-2480 MHz
Wireless Range	Up to 30m inside, up to 50m outside.
Ambient temperature	-20...+45°C
Cable - solid core	0.5 - 1.5 mm2, strip length 6-8mm
Weight	15g
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 and obstacles, such as walls and building materials.

Dimensional Drawings

Mounting hole diameter - 3.5mm

All dimensions in mm

* Tc point is on bottom side

Antenna location

CASAMBI APP GOOGLE PLAY STORE

CASAMBI APP APPLE ITUNES STORE

WARNING!

Hazardous voltages. Risk of electric shock or fire. Only qualified professionals should make the connections. Disconnect the mains power supply and verify its absence prior to installation.

Installation Instructions

CBU-PWM4, as any other Casambi 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.

If you install the dimmer into a heat sensitive environment (e.g. inside a luminaire or in a ceiling outlet box above a luminaire), make sure that the ambient temperature does not exceed the specified maximum value. Using the dimmer in a heat sensitive environment may limit the maximum output power.

Using CBU-TED with maximum load will make it hot. Make sure to place the product in well-ventilated space and away from any flammable material.

Load Types

Incandescent and high voltage halogens	100W
Dimmable LED bulbs (C) 1)	100W
Dimmable CFL bulbs (C) 1)	100W
Trailing edge dimmable LED drivers 1)	100W
Low voltage halogens with electronic transformers	100W
High voltage AC LED modules 1)	100W
Wire wound transformers and other inductive loads	Not allowed
Non-dimmable fluorescent lamps, LED and CFL bulbs	Now allowed

1) Dimming quality depends solely on the load electronics. Do not mix different types of bulbs or loads. Some luminaires may flicker at low dimming

Please take careful note of inrush currents on connected devices. Dimmable lamps are generally low inrush, but drivers can have a very large inrush current.

Input and Output Wiring

Make sure that the mains voltage is switched off before making any connections. Use 0.5–1.5 mm² solid conductor electrical wires. Strip the wire 6–8 mm from the end.

Press the buttons on top of the dimmer case and insert the wires to the corresponding terminals. Make sure to connect the input and output correctly. Input connector is marked with letters L and N, while the output connector is marked with letter N and a symbol with a wave and an arrow ($\curvearrowright$).

WIRING DIAGRAM

CASAMBI
CBU-TED
Trailing edge dimmer

L ↑ N   Max. 0.65 A   N ↓ ∿