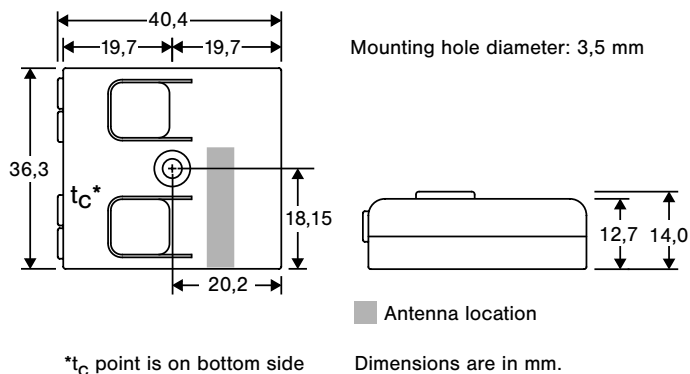



## CBU-TED

Bluetooth-controllable dimmer



### Dimensions





**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.

### Disposal Instructions

In line with EU Directive 2012/19/EU 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.

Casambi confirms that the CBU-TED fully complies with Directive 2014/53/EU.

Further information can be found in the Downloads section of the Casambi website: [casambi.com/ecosystem/cbu-ted/](https://casambi.com/ecosystem/cbu-ted/)

FCC ID: 2ALA3-CBUTED  
IC: 22496-CBUTED  
UL: UL Listed, E494741

### Description

CBU-TED is a Bluetooth-controllable, Casambi-enabled trailing edge dimmer for incandescent lamps, dimmable LED lamps and dimmable LED control gear. It can be installed behind a traditional wall switch, inside a luminaire or into a ceiling outlet box. The maximum allowed ambient temperature must be observed.

CBU-TED is able to control up to 100 W at 230 VAC. It features an overcurrent and over temperature protection.

CBU-TED can be controlled with the Casambi app, available for iOS and Android devices, as well as with traditional wall switches. The Casambi app can be downloaded free of charge from the Apple App Store and Google Play Store.

Different Casambi-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 automatically form an intelligent mesh network.

## Technical data

### Input

Voltage:	85–240 VAC
Frequency:	50/60 Hz
Max. mains current:	0,43 A
No-load standby power:	< 0,3 W

### Output

Dimming method:	trailing-edge phase control
Max. output power:	100 W @ 230 VAC
Max. output current:	0,43 A
Min. load requirement:	1 W
Max. load inrush current:	10 A, 100 ms

### Radio transceiver

Operating frequencies:	2402...2480 MHz
Maximum output power:	+4 dBm

### Operating conditions

Ambient temperature, ta:	-20 to +45°C
Max. case temperature, tc:	+75°C
Location of tc point:	bottom side, underneath output connector
Storage temperature:	-25...+75°C
Max. relative humidity:	0...80%, non-condensing

### Connectors

Wire range, solid:	0,5–1,5 mm <sup>2</sup> 16–20 AWG
Wire strip length:	6-8 mm

### Mechanical data

Dimensions:	40,4 x 36,3 x 14,0 mm
Weight:	15 g
Degree of protection:	IP20 (indoor use only)

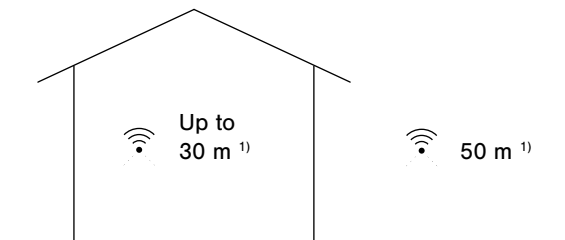
## Compatibility

### Compatible devices:

- iOS and Android, Latest version and two (2) prior major versions (e.g. iOS 16 -> also 15 and 14)



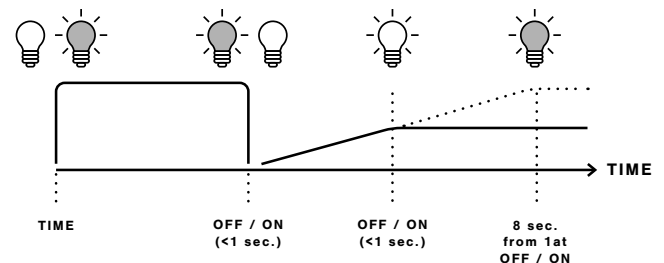
## Range



Casambi uses mesh network technology so each Casambi unit, or Casambi Ready product, acts also as a repeater. Longer ranges can be achieved by using multiple Casambi products.

<sup>1)</sup> Range is highly dependent on the surroundings and obstacles, such as walls and building materials.

## Dimming without app



- Turn lights on from a wall switch.
- Quickly flick the wall switch off (max. 1sec.) and back on. The light level starts to increase gradually.
- Flick the switch again at the desired dim level. The selected level is saved automatically.
- If the second flick is not done within 8 seconds, the light intensity reaches its maximum level.
- Flicking the switch can also be used to switch between predefined scenes.

## Installation

Make sure that the mains voltage is switched off before making any connections. Use 0,5–1,5 mm<sup>2</sup> 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 into the corresponding terminals. Make sure to connect the input and output correctly. The input connector is marked with letters L and N, while the output connector is marked with the letter N and a symbol with a wave and an arrow (⚡).

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.

### Warning

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.

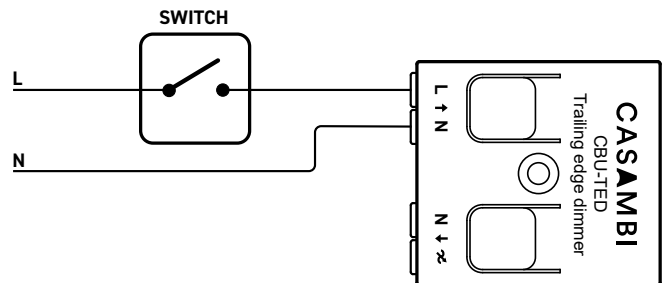
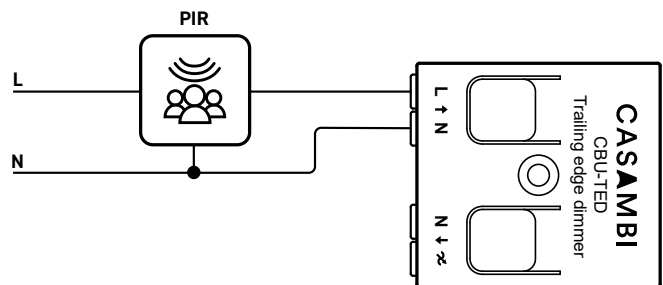
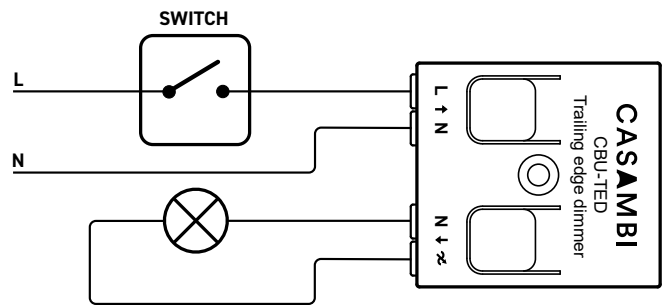
### Type of load

Type of load	Max. load
Incandescent and high voltage halogens	100 W
Dimmable LED bulbs (C) <sup>1)</sup>	100 W
Dimmable CFL bulbs (C) <sup>1)</sup>	100 W
Trailing edge dimmable LED drivers <sup>1)</sup>	100 W
Low voltage halogens with electronic transformers	100 W
High voltage AC LED modules <sup>1)</sup>	100 W
Wire wound transformers, electric motors and other inductive loads	Not allowed
Non-dimmable fluorescent lamps, LED and CFL bulbs	Not allowed

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

Never connect inductive loads, such as iron core transformers. This could cause permanent damage to the dimmer. Do not mix different types of loads.

## Wiring diagrams



### Warning

Changes or modifications not expressly approved by Casambi Technologies Oy could void the user's authority to operate the equipment.

## Fixture profile

Profile #	Profile	Description
526*	TED	One channel 50/60Hz trailing edge phase cut dimmer
11766	TED (Linear)	One channel 50/60Hz trailing edge phase cut dimmer
8123	TED (Log)	One channel 50/60Hz trailing edge phase cut dimmer
3534	Presence	Fixture providing presence and/or daylight sensing. Presence can be activated from smart switch, push button or dedicated presence sensor.

\*Default profile