

# CASAMBI dimmer - 1 channel

Ref: 41.045

## Features:

- Bluetooth controllable CASAMBI dimmer for incandescent luminaires, dimmable LED luminaires and dimmable LED control gear.
- It can be installed behind a traditional wall switch, inside a luminaire or in a recessed box in the ceiling. The maximum permissible ambient temperature must be respected.
- It is protected against overcurrent and overheating.
- It can be controlled with the CASAMBI app, available for iOS and Android devices. The CASAMBI app can be downloaded free of charge from the Apple App Store and Google Play.
- Different CASAMBI-compatible products can be used, from a simple direct control of a luminaire or up to a complete lighting control system with a multitude of functions, where up to 250 units automatically form an intelligent mesh network.



## Technical characteristics

### Technical data

Power	98W (230V)
Voltage	85V-240V
Amps	0.43A
Frequency	50/60Hz
No-load standby power	<0,3W
Max. inrush current	10A, 100ms
Operating frequencies	2402...2480MHz
Control	Bluetooth
Degree of protection	IP20

### Services

Regulation	Yes
Point location (tc)	Bottom side, below the output connector
Apt for	Indoor
Fixing	With screw
Maximum distance of signal reception	30m

### Temperatures and operating conditions

Working temperature	-25°C / 75°C
Ambient temperature (ta)	-20°C / 45°C
Max. device temperature (tc)	+75°C
Max. relative humidity	0...80%



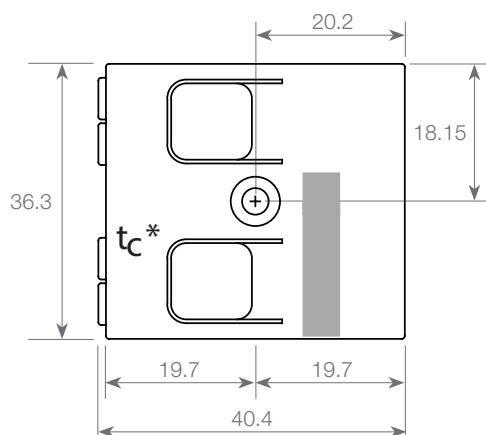
## Compatible devices:

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



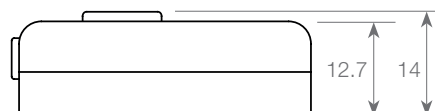
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Scale 1:1 (mm)



Mounting hole diameter 3.5mm

■ Antenna location



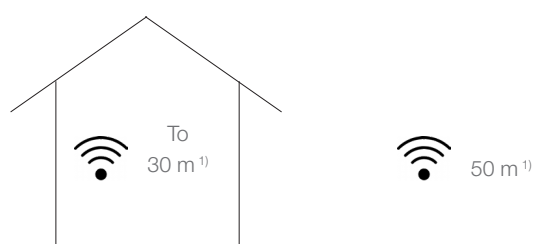
## Dimensions and weight

Length	36.3mm	Height	14mm
Width	40.4mm	Weight	15gr

## Connectors

Range of cables, solid and stranded	0.5 – 1.5mm <sup>2</sup> / 16 – 20AWG	Stripping length of cable	6 - 8mm
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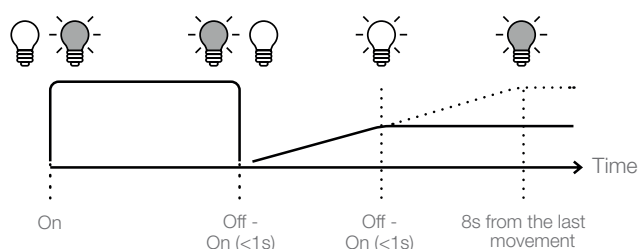
## Range



Casambi uses mesh network technology, so each 41.045 also acts as a repeater. Longer ranges can be achieved by using multiple Casambi units.

<sup>1)</sup> The range is highly dependent on the environment and obstacles such as walls or building materials.

## Regulation without enforcement



1. Turn on the lights with a wall switch.
2. Switch the wall switch off and then on again quickly (max. 1s). The light level starts to increase gradually.
3. Switch off and quickly switch on again when the desired level has been reached. This is automatically saved.
4. If the second quick movement is not made within 8 seconds, the light intensity reaches its maximum level.
5. You can also quickly move the switch to change between preset scenes.

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## Installation

Ensure that the mains voltage is disconnected when making any connections. Use 0.5-1.5mm<sup>2</sup> solid or stranded conductor power cables. Strip the cable 6 - 8mm from the end. Press the buttons on the top of the controller box and insert the wires into the corresponding holes. Be sure to connect the input and output correctly. The input connector is marked with the letters L and N, while the output connector is marked with the letter N and a wave and arrow symbol (⚡).

If you install the dimmer in a heat-sensitive environment (i.e. inside a luminaire or in a recessed box above a luminaire), make sure that the ambient temperature does not exceed the specified maximum value. Use of the dimmer in a heat-sensitive environment may limit the maximum power output.



**!WARNING!**

Use of the 41.045 at maximum load may cause it to operate at a very high temperature. Be sure to place the product in a well-ventilated space away from flammable materials.

Type of load	Maximum load
Incandescent and high voltage halogens (R)	98W
High-quality dimmable LED bulbs (C) <sup>1)</sup>	98W
High-quality dimmable CFL bulbs (C) <sup>1)</sup>	98W
Dimmable led drivers by end of phase cut (C) <sup>1)</sup>	98W
Low-voltage halogens with electronic transformers (C) <sup>1)</sup>	98W
High voltage AC led modules (R) <sup>2)</sup>	98W
Wire wound transformers, electric motors and other inductive loads (I)	It is not allowed
Luminescent lamps, LED bulbs and non-dimmable CFLs (C)	It is not allowed

<sup>1)</sup> The quality of the dimming depends solely on the electronics of the load. Do not mix bulbs or loads of different types.

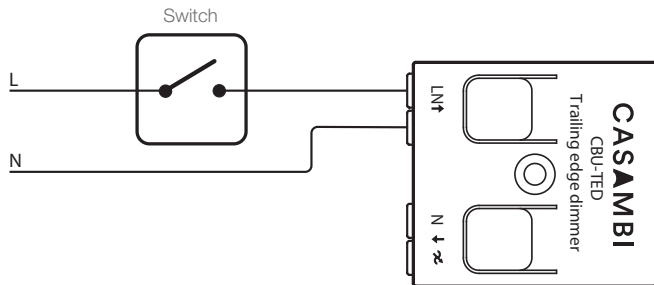
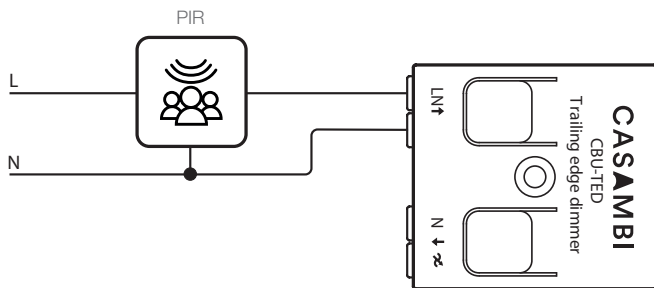
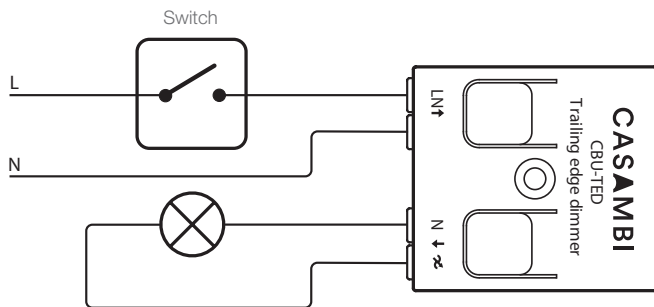
<sup>2)</sup> Some LED modules may flicker at low dimming levels.



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

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## Installation



## Disposal instructions

In accordance with EU Directive 2002/96/EC on electrical waste 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 by taking it to your local municipal waste collection point for recycling.

FCC ID: 2ALA3-CBUTED

IC: 22496-CBUTED

UL: UL Listed, E494741V



**Warning!**

Hazardous voltages.

Risk of electric shock or fire.



Connections must only be carried out by qualified professionals.

Disconnect the mains supply and check that there is no power before installation.