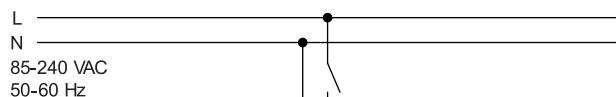


Bluetooth control unit for LED drivers



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.

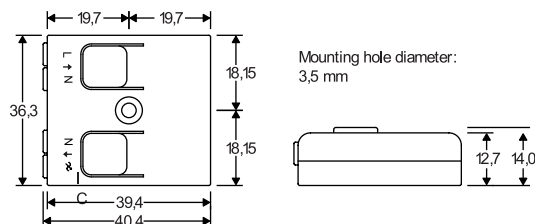
Wiring diagram



Wire info:
Solid and stranded:
0,5-1,5 mm²/ 16-20 AWG

Strip length: 6-8 mm

Dimensions



Load suitability

Type of load	Max. load
Incandescent and high voltage halogens (R)	150 W
High quality dimmable LED bulbs (C) ¹⁾	50 W
High quality dimmable CFL bulbs (C) ¹⁾	50 W
Trailing edge dimmable LED drivers (C) ^{1 2)}	50 W
Low voltage halogens with electronic transformers (C) ^{1 2)}	50 W
High voltage AC LED modules (R) ³⁾	150 W
Luminescent lamps, non-dimmable LED and CFL bulbs (C)	Not allowed
Wire wound transformers, electric motors and other inductive loads (I)	Not allowed

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

¹⁾ Dimming quality depends solely on the load electronics.

²⁾ Do not connect more than two electronic transformers to one CBU-TED.

³⁾ Some LED modules may flicker at low dimming levels.

Description

CBU-TED is a Bluetooth controllable, Casambi enabled trailing-edge dimmer for operation of 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. Maximum allowable ambient temperature must be observed.

CBU-TED is able to control up to 150 W. The maximum permissible load varies according to different load types.

CBU-TED can be controlled with 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 Apple App Store and Google Play Store.

Different Casambi enabled products can be used as a simple one luminaire direct control to a complete and full featured light control system where up to 127 units form automatically an intelligent mesh network.

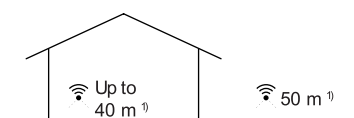
Installation

Make sure that the mains voltage is switched off when making any connections. Use 0,5-1,5 mm² solid or stranded 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 holes. 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 (⚡).

If you install the dimmer into a heat sensitive environment (i.e. 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.

Range



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

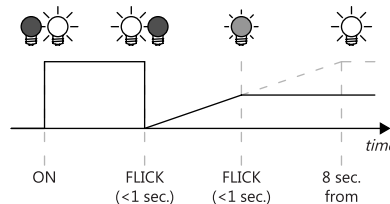


Compatible devices:
iPhone 4S or later
iPad 3 or later
iPod Touch 5th gen or later
Android 4.4 KitKat or later devices produced after 2013 with full BT 4.0 support

¹⁾ Range is highly dependent on the surrounding and obstacles, such as walls and building materials.

Dimming without app

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



Technical data

Input	
Voltage range:	85-240 VAC
Frequency:	50-60 Hz
Max. mains current:	0,65 A
No-load standby power:	<0,3 W
Output	
Dimming method:	trailing-edge phase control
Max. output power:	
- Incandescent and high voltage halogen bulbs:	150 W @230 VAC 70 W @110 VAC
- High voltage AC LED modules:	150 W @230 VAC 70 W @110 VAC
- Dimmable LED and CFL bulbs:	50 W @230 VAC 25 W @110 VAC
- Dimmable electronic transformers:	50 W @230 VAC 25 W @110 VAC
Max. output current:	0,65 A
Min. load requirement:	1 W
Max. current pulse:	4 A
Radio transceiver	
Operating frequencies:	2,4...2,483 Ghz
Maximum output power:	+4 dBm
Operating conditions	
Ambient temperature, ta:	-20...+45 °C
Max. case temperature, tc:	+65 °C
Storage temperature:	-25...+75 °C
Max. relative humidity:	0...80%, non-cond.
Connectors	
Wire range, solid & stranded:	0,5-1,5 mm ² 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)
Partnumbers:	
164 19 24 09 83	1CH trailing edge dimmer

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Bluetooth light control from LEDs GO



Not just using apps and smartphones

Casambi enabled luminaires can be controlled from a regular power or wall switch without the Casambi app. It is possible to use the wall switch for dimming, controlling one scene with multiple luminaires or switching through multiple scenes.

Even a 100 year old power switch can be used.

There is no need to install additional dimmers, simply install the Casambi unit and you are ready to use the regular wall switch for dimming. To be able to control scenes you need to first change the Smart Switching settings with Casambi app.



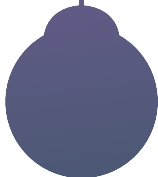
Easy to install

You don't need any new wiring, switches, devices or networks. Plug in the lighting fixture and pair it with your phone or tablet. No other configurations needed.



Delightful to use

You can control your lights with an intuitive and visual user interface on your smartphone or tablet.



Practical daily use
You can still use your existing wall switches. They will have a new life: use them as dimmers and control many lamps with one switch.

Lighting as Experience
Casambi is more than just a light switch. With a tap on your smartphone you can set the ambience for study, watching a movie, or a romantic dinner.

LEDsGO BVBA

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8560 Wevelgem

Tel: 32 56 42 49 92

Fax: 32 56 43 57 07

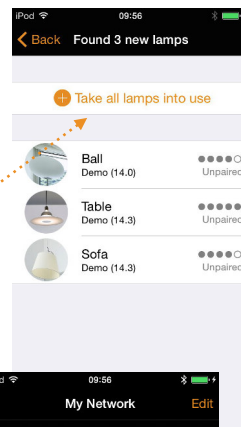
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First time use

Casambi app is easy to take into use. Follow these simple steps.

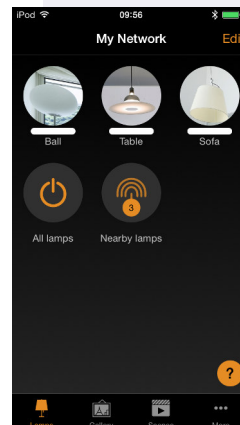
1. Download the app from Apple App Store or Google Play Store.
2. Turn on your Casambi enabled luminaires.
3. Open the app.
4. Casambi app will automatically find all Casambi enabled luminaires that are switched on.
5. Tap on the 'Take all lamps into use'.
6. Casambi app will automatically add all luminaires to one network and open the 'Lamps' tab



Basic gestures

Here are the basic gestures how to control your lights.

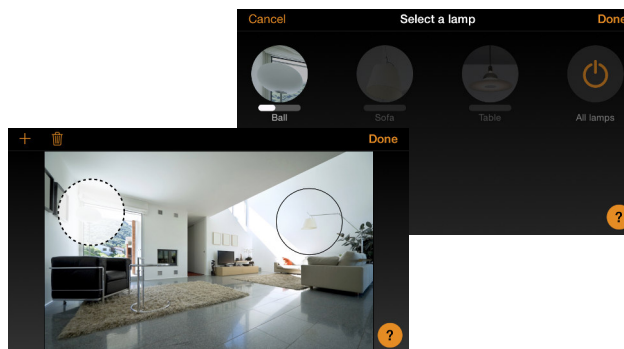
- To turn on or off your luminaire just tap on the lamp control.
- Pan lamp control left or right to adjust light level of the luminaire.
- Pan lamp control up or down to adjust the colour temperature of the luminaire.
- Hold on top of the lamp control to change the colour.



Gallery

The Gallery in Casambi app is the most natural way of controlling your luminaires. Take a picture of the room where your luminaires are, and place lamp controls over them in the picture.

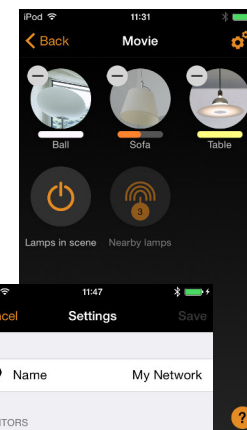
1. Add a photo of your room to Casambi Gallery by tapping 'Edit' and after that the '+' sign.
2. After you have added a photo you can add lamp controls to the picture. Tap on the '+' sign, select a lamp control that you want to add to the picture and tap 'Done'.
3. After you have added controls over all the luminaires in the picture tap 'Done'.
4. Now you can control your luminaires visually from the picture. No need to guess which luminaire is which.



Scenes

In the 'Scenes' tab you can create different lightings for different occasions. It is possible to control multiple luminaires with one tap to create perfect ambience. One luminaire can be used in several scenes.

1. Tap on 'Add a scene' and enter a name for the scene
2. Select one or multiple lamp controls and adjust the luminaires for the scene. You can adjust the luminaires separately or if you want to have same dim level or colour for all you can use the 'Lamps in scene' control to adjust all luminaires in the scene.
3. When you are done editing the scene tap on '< Back'.
4. If you would like to create more scenes tap on the 'Edit' in scenes tab and then tap on the '+' sign.



Networks and Sharing

If you want to control your luminaires from more than one mobile device you can change the network sharing settings from Networks settings.

1. Go to 'More' tab and select 'Networks settings'.
2. Tap on the Sharing and the 'Sharing mode' screen will open.
3. There are four different sharing modes: Not Shared, Administrator only, Password protected and Open.
4. Confirm your settings with 'Save'.

