**Casambi DIM module Tre DIM**

**CBU-TED**

Bluetooth controllable dimmer

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**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: 150 VA @ 230 VAC
- Max. output current: 0.65 A
- Min. load requirement: 1 W
- Max. inrush current: 10 A, 100 ms

**Radio transceiver**

- Operating frequencies: 2.4...2.483 Ghz
- Maximum output power: +6 dBm

**Operating conditions**

- Ambient temperature, ta: -20...+45°C
- Max. case temperature, tc: +75°C
- Max. load: 150 VA
- Max. relative humidity: 0...80%, non-cond.

**Connectors**

- Wire range, solid & stranded: 0.5-1.5 mm²/16-20 AWG
- Wire strip length: 6-8 mm

**Compatibility 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

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**Description**

CBU-TED (13470101) is a BT 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 VA at 230 VAC. It features an overcurrent and over temperature protection.

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.

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**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.

**WARNING!**

Using CBU-TED with maximum load can make it operate very hot. Make sure to place the product in a well-ventilated space and away from any flammable materials.

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**Disposal Instructions**

In line with EU Directive 2002/96/EC 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.

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**Wiring diagram**

- L
- N
- 85-240 VAC
- 50-60 Hz

**Connectors**

- Wire info: Solid and stranded: 0.5-1.5 mm²/16-20 AWG
- Strip length: 6-8 mm

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**Load suitability**

<table>
<thead>
<tr>
<th>Type of load</th>
<th>Max. load</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incandescent and high voltage halogens (R)</td>
<td>150 VA</td>
</tr>
<tr>
<td>High quality dimmable LED bulbs (C)</td>
<td>150 VA</td>
</tr>
<tr>
<td>High quality dimmable CFL bulbs (C)</td>
<td>150 VA</td>
</tr>
<tr>
<td>Trailing edge dimmable LED drivers (C)</td>
<td>150 VA</td>
</tr>
<tr>
<td>Low voltage halogens with electronic transformers (C)</td>
<td>150 VA</td>
</tr>
<tr>
<td>High voltage AC LED modules (R)</td>
<td>150 VA</td>
</tr>
<tr>
<td>Luminous lamps, non-dimmable LED and CFL bulbs (C)</td>
<td>Not allowed</td>
</tr>
<tr>
<td>Wire wound transformers, electric motors and other inductive loads (I)</td>
<td>Not allowed</td>
</tr>
</tbody>
</table>

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

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**Range**

- **Up to 30 m**
- **50 m**

**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

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**Dimming without app**

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

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**Mechanical data**

- Dimensions: 40.4 x 36.3 x 14.0 mm
- Weight: 15 g
- Degree of protection: IP20 (indoor use only)

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**Dimensions**

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting hole</td>
<td>19.7</td>
<td>19.7</td>
<td>3.5</td>
</tr>
<tr>
<td>Antenna location</td>
<td>6.15</td>
<td>6.15</td>
<td>1.4</td>
</tr>
</tbody>
</table>

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**Radio transceiver**

- Operating frequencies: 2.4...2.483 Ghz
- Maximum output power: +6 dBm

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