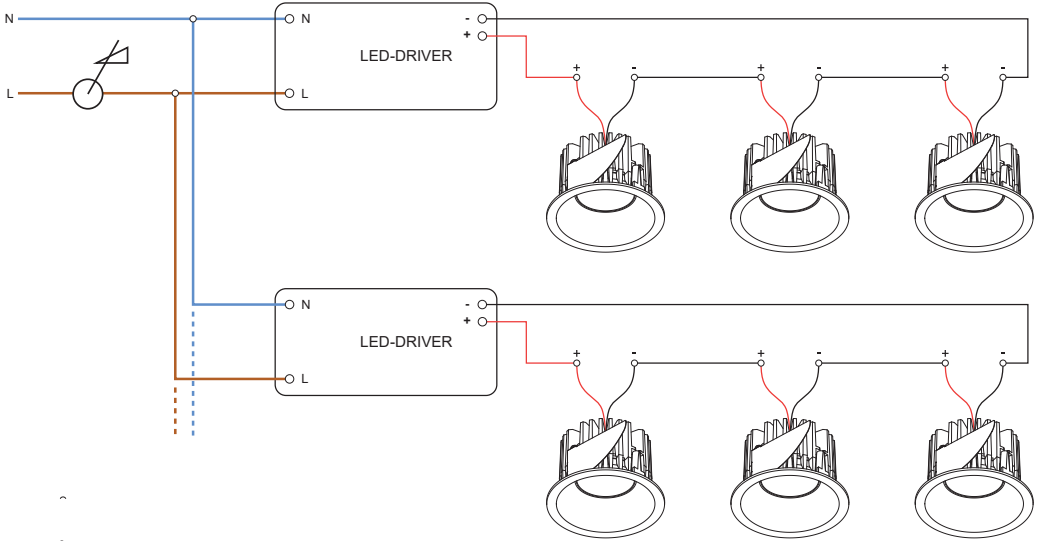


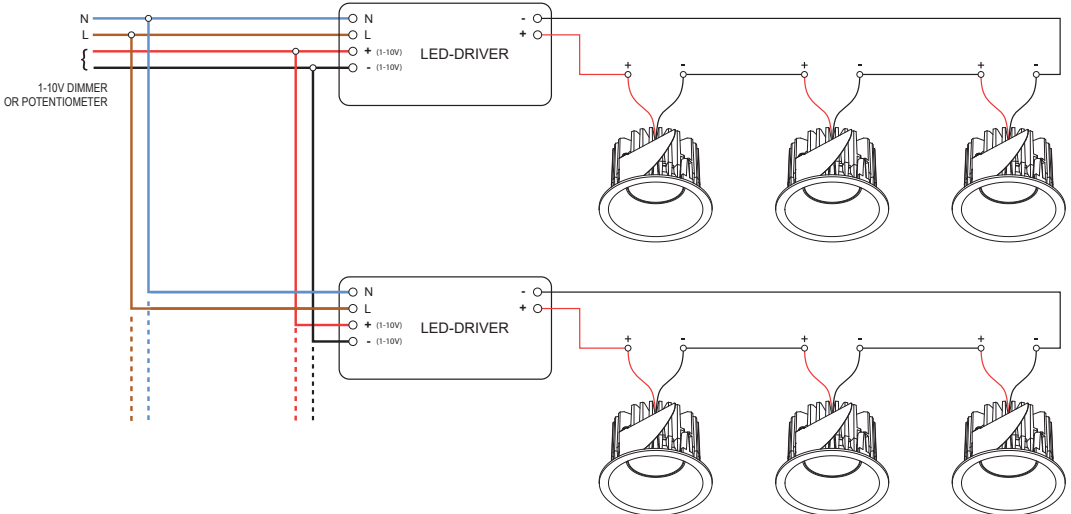
Wiring diagrams

MAINS



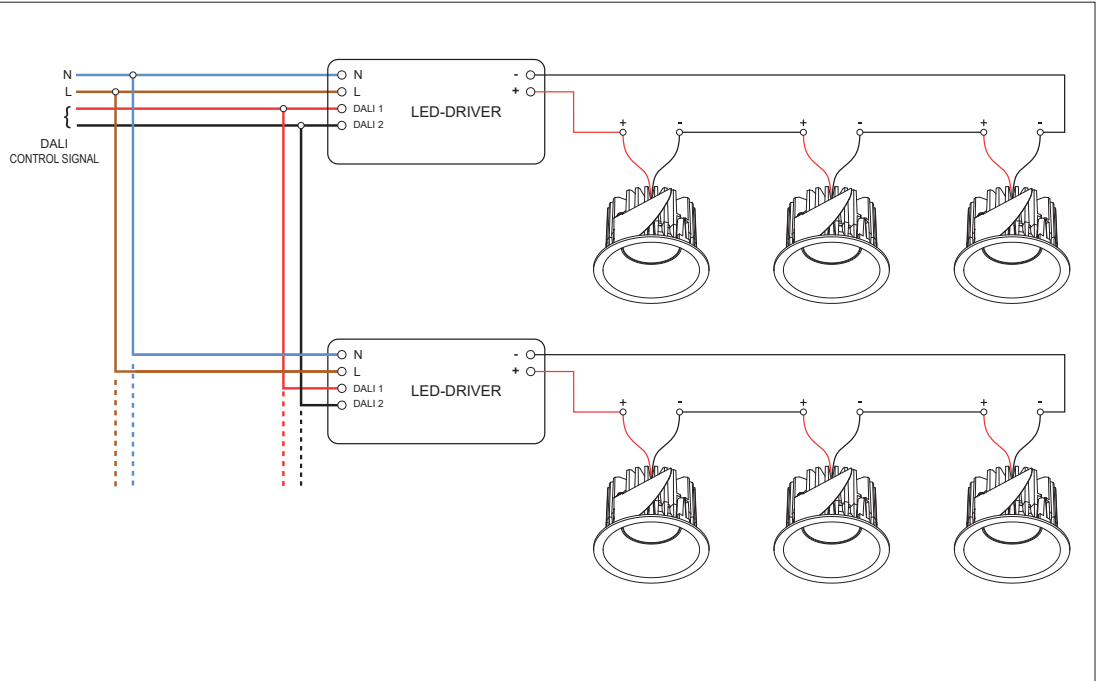
- CHECK DIMMER AND DRIVER COMPATIBILITY
- USE A TRAILING EDGE DIMMER FOR OPTIMAL DIMMING PERFORMANCE

1-10V

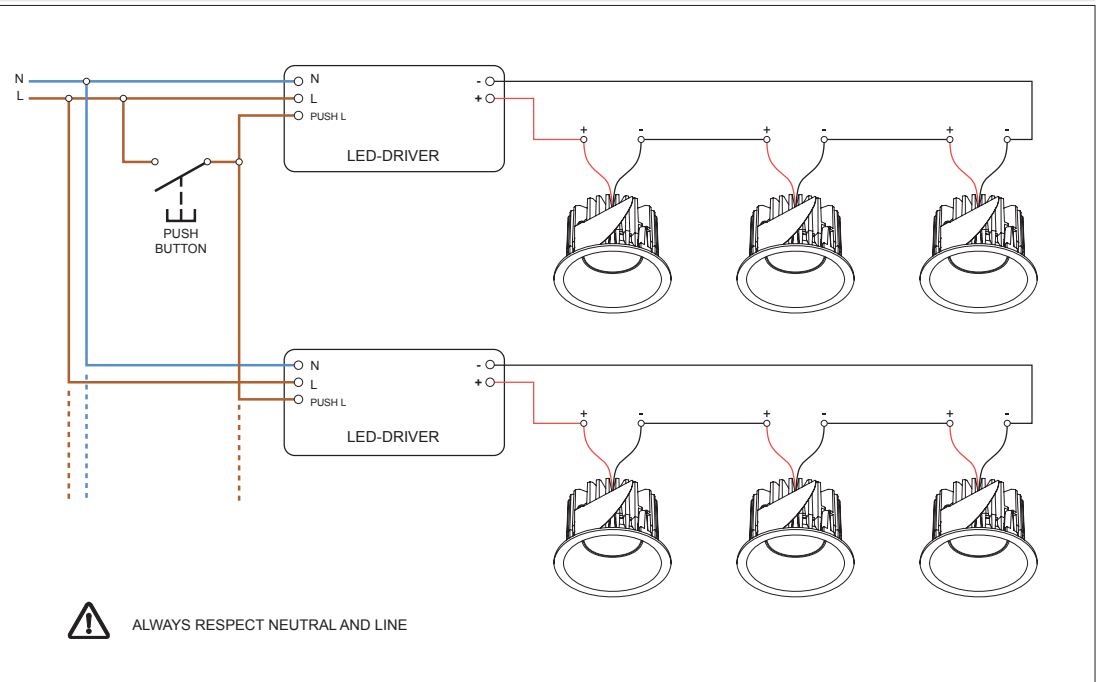


ALWAYS RESPECT POLARITY OF 1-10V SIGNAL

DALI

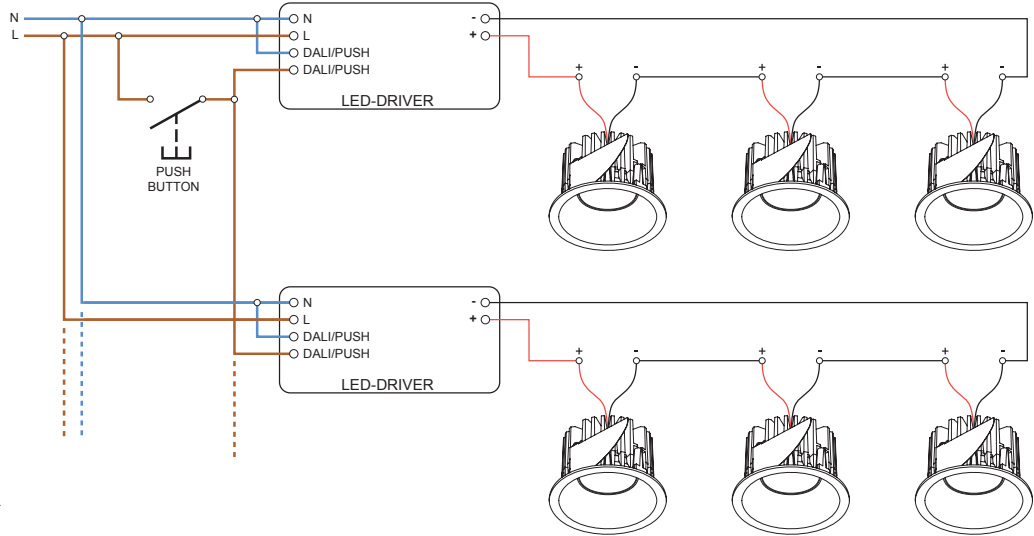


PUSHDIM - SINGLE DIM CHANNEL



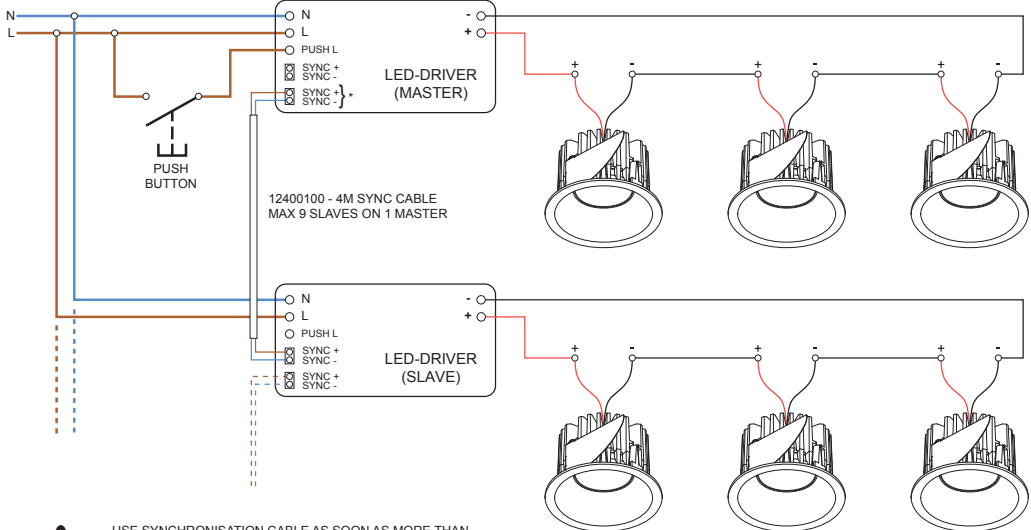
Wiring diagrams

PUSHDIM - DOUBLE DIM CHANNEL



ALWAYS RESPECT NEUTRAL AND LINE

PUSHDIM - MASTER SLAVE WITH SYNCHRONISATION CABLE



- USE SYNCHRONISATION CABLE AS SOON AS MORE THAN 4 DRIVERS ARE USED ON ONE SWITCH
- ALWAYS RESPECT NEUTRAL AND LINE
- DO NOT CONNECT PUSH L ON SLAVE DRIVER(S)
- TOTAL PUSH DIM CABLE LENGTH MAX. 15 METER

* ALWAYS USE SECOND SYNC CLAMP ON MASTER AS SHOWN ON DIAGRAM



PHILIPS HUE APP



PHILIPS HUE TAP SWITCH

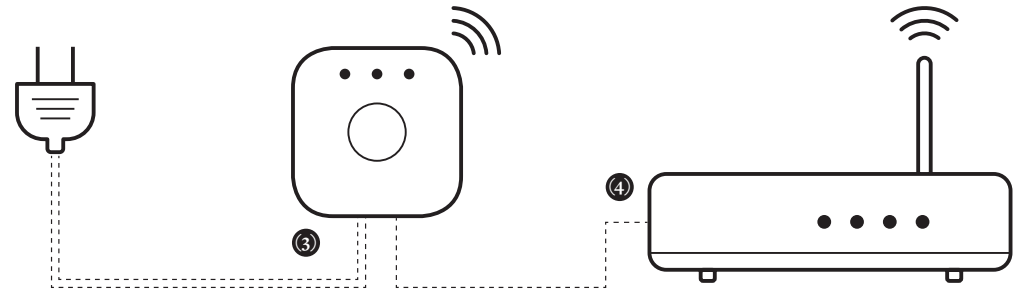


PHILIPS HUE DIMMER SWITCH



PHILIPS HUE MOTION SENSOR

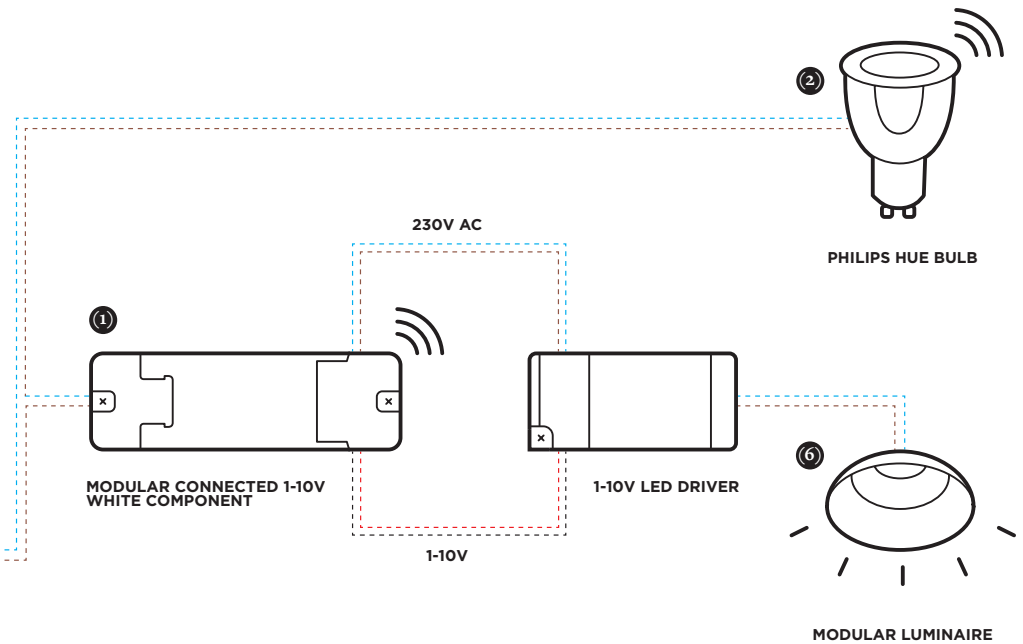
230V



PLUG 230V

PHILIPS HUE BRIDGE

WIFI ROUTER WITH LAN CONNECTION



PHILIPS HUE BULB

MODULAR CONNECTED 1-10V WHITE COMPONENT

1-10V LED DRIVER

MODULAR LUMINAIRE

Casambi DIM module Tre DIM

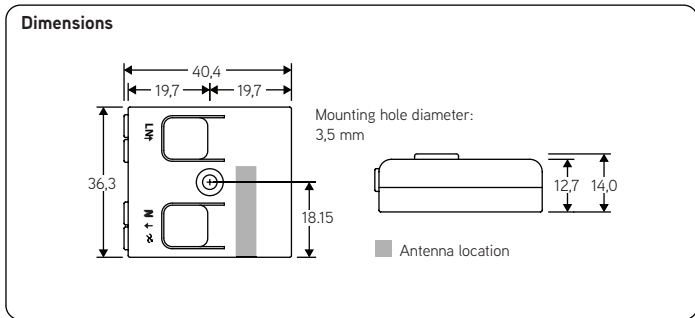
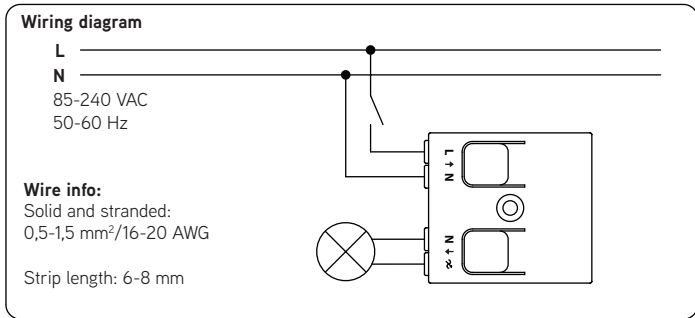
13470101

CBU-TED

Bluetooth controllable dimmer



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.



Load suitability

Type of load	Max. load
Incandescent and high voltage halogens (R)	150 VA
High quality dimmable LED bulbs (C) ¹⁾	150 VA
High quality dimmable CFL bulbs (C) ¹⁾	150 VA
Trailing edge dimmable LED drivers (C) ¹⁾	150 VA
Low voltage halogens with electronic transformers (C) ¹⁾	150 VA
High voltage AC LED modules (R) ²⁾	150 VA
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. Do not mix different types of bulbs or loads.

²⁾ Some LED modules may flicker at low dimming levels.

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.

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.

Range

Up to 30 m ¹⁾ 50 m ¹⁾

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

Download on the App Store
 ANDROID APP ON Google play

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 off (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:	150 VA @ 230 VAC 75 VA @ 120 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:	+4 dBm
Operating conditions	
Ambient temperature, ta:	-20...+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-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)
Maximum number of drivers connected:	1 pc

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.

For more information, support and troubleshooting about the Casambi technology please visit:
<https://support.casambi.com/support/solutions>
 Advised to use this device in an Evolution network




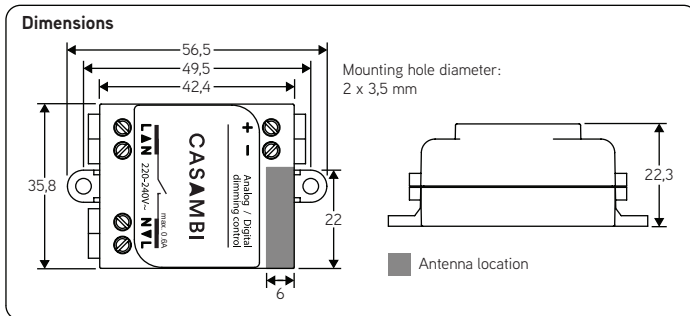
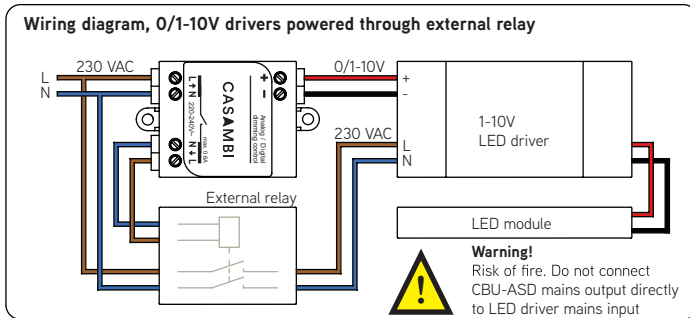
Casambi DIM module 0/1-10V

13470100

CBU-ASD

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.



Note 1. CBU-ASD is a built-in class II device. Use double insulated wires or an external mounting box if the device is not mounted inside another insulated device.

Note 2. Connect only one LED driver (0/1-10V driver) to one DIM Module

Description

CBU-ASD (13470100) is a wireless control unit for LED and halogen drivers with 0/1-10V dimming interface.

CBU-ASD is controlled wirelessly with Casambi smartphone and tablet applications using Bluetooth 4.0 protocol. The Casambi app can be downloaded free of charge from Apple App Store and Google Play Store.

Devices form automatically a secure wireless mesh network so that a large number of fixtures can be controlled from any point. No external gateway module is needed. CBU-ASD can be controlled also from a standard on/off wall switches.

Installation

Make sure that the mains voltage is switched off when making any connections. Use 0,75-1,5 mm² solid or stranded conductor electrical wires. Strip the wire 6-7 mm from the end.

Insert the wires to the corresponding holes and tighten the connector screw. Make sure to connect the input and outputs correctly. Mains input connector is marked with letters L and N with an arrow pointing inwards, while the mains output connector is marked with letters L and N with an arrow pointing outwards. The low voltage output is marked with + and - symbols.

If you install CBU-ASD 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.

Range



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

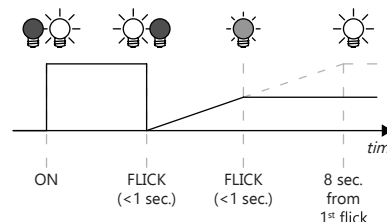


Compatible devices:
 iPhone 4S or later
 iPad 3 or later
 iPod Touch 5th gen or later
 Android 4.4 KitKat or later devices produced after 2013 with full BT 4.0 support

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

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.



Technical data

Input

Voltage range:	220-240 VAC
Frequency:	50 Hz
Max. mains current - max. RMS power:	0,6 A - 100W max.

Mains Output

Output relay:	SSR on phase line
Voltage range:	220-240 VAC
Inrush current:	12 A (8 ms)

0-10V Output

Voltage range/Max. source current:	0-10 VDC / 6mA
Maximum number of drivers connected:	1 pc

Radio transceiver

Operating frequencies:	2,4...2,483 Ghz
Maximum output power:	+4 dBm

Operating conditions

Ambient temperature, ta:	-20...+50°C (Iout 0 A) -20...+40°C (Iout 0,6 A)
Max. case temperature, tc:	+70 °C
Storage temperature:	-25...+75 °C
Max. relative humidity:	0...80%, non-cond.

Connectors

Wire range, solid & stranded:	0,75-1,5 mm ² 14-22 AWG
Wire strip length:	6-7 mm
Tightening torque:	0,4 Nm/4 Kgf.cm/2,6 Lb-In

Mechanical data

Dimensions:	56,5 x 35,8 x 22,3 mm
Weight:	48 g
Degree of protection:	IP20 (indoor use only)
Protection class:	Built-in Class II

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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<https://support.casambi.com/support/solutions>

Advised to use this device in an Evolution network

Casambi DIM module DALI

13470102

CBU-ASD

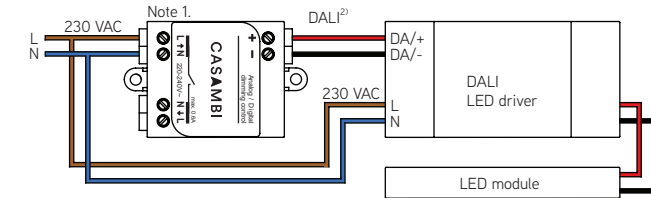
Bluetooth control unit for LED drivers



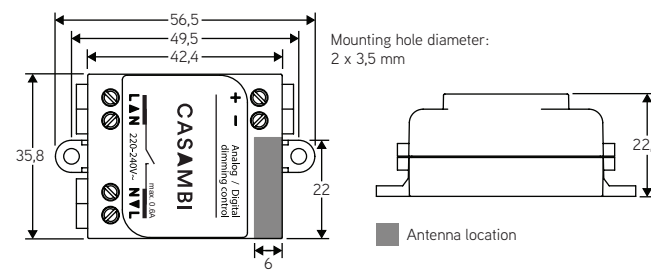
Warning!
Hazardous voltages. Risk of electric shock or fire. Only qualified professionals should make the connections. Disconnect the mains power supply and verify its absence prior to installation.

Wiring diagram, directly powered DALI

Suitable for drivers that can be switched off via control interface



Dimensions



Note 1. CBU-ASD is a built-in class II device. Use double insulated wires or an external mounting box if the device is not mounted inside another insulated device.

Note 2. CBU-ASD and its DALI interface do not meet the requirements of IEC 60929. Connect only directly to a DALI controllable LED driver. Not to be connected to an existing DALI network. Connect only one LED driver (DALI driver) to one CBU-ASD.

Description

CBU-ASD (13470102) is a wireless control unit for LED and halogen drivers with DALI dimming interface.

With Standalone DALI output, CBU-ASD acts both as a controller and as a power supply making it possible to connect directly to an LED driver with DALI interface without the need for an external DALI power supply. This so called Standalone DALI makes it possible to implement multi-channel lighting systems with adjustable color (RGB and RGBW) or color temperature (CCT), while keeping the wiring and number of components at their minimum.

CBU-ASD does not comply with IEC 60929 and therefore is not designed to be connected to an existing DALI network. The module can be used only in a closed system, i.e. as a part of a lighting system which is not connected to an external DALI network.

CBU-ASD is controlled wirelessly with Casambi smartphone and tablet applications using Bluetooth 4.0 protocol. The Casambi app can be downloaded free of charge from Apple App Store and Google Play Store.

Devices form automatically a secure wireless mesh network so that a large number of fixtures can be controlled from any point. No external gateway module is needed. CBU-ASD can be controlled also from a standard on/off wall switches.

Installation

Make sure that the mains voltage is switched off when making any connections. Use 0,75-1,5 mm² solid or stranded conductor electrical wires. Strip the wire 6-7 mm from the end.

Insert the wires to the corresponding holes and tighten the connector screw. Make sure to connect the input and outputs correctly. Mains input connector is marked with letters L and N with an arrow pointing inwards, while the mains output connector is marked with letters L and N with an arrow pointing outwards. The low voltage output is marked with + and - symbols.

If you install CBU-ASD 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.

Range

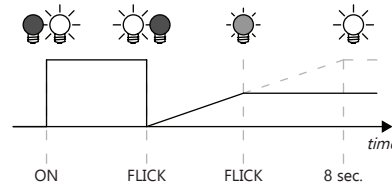


Compatible devices:
iPhone 4S or later
iPad 3 or later
iPod Touch 5th gen or later
Android 4.4 KitKat or later devices produced after 2013 with full BT 4.0 support

¹⁾ Range is highly dependant 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 off (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:	220-240 VAC
Frequency:	50 Hz
Max. mains current:	0,6 A

Mains Output

Output relay:	SSR on phase line
Voltage range:	220-240 VAC
Frequency:	50 Hz

DALI Output

Voltage range:	9-12 VDC
Maximum number of drivers connected:	1 pc

Radio transceiver

Operating frequencies:	2,4...2,483 Ghz
Maximum output power:	+4 dBm

Operating conditions

Ambient temperature, ta:	-20...+50°C (Iout 0 A) -20...+40°C (Iout 0,6 A)
Max. case temperature, tc:	+70 °C
Storage temperature:	-25...+75 °C
Max. relative humidity:	0...80%, non-cond.

Connectors

Wire range, solid & stranded:	0,75-1,5 mm ² 14-22 AWG
Wire strip length:	6-7 mm
Tightening torque:	0,4 Nm/4 Kgf.cm/2,6 Lb-In

Mechanical data

Dimensions:	56,5 x 35,8 x 22,3 mm
Weight:	48 g
Degree of protection:	IP20 (indoor use only)
Protection class:	Built-in Class II

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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Advised to use this device in an Evolution network

