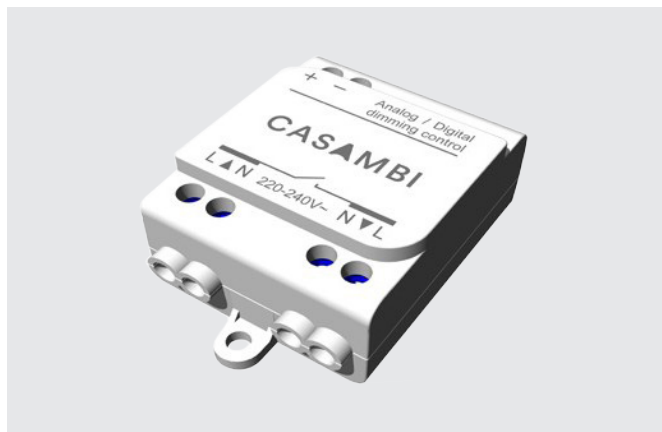
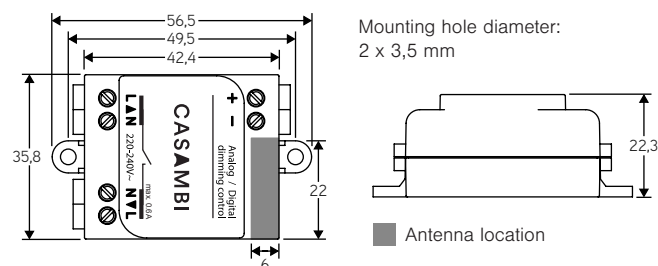


CBU-ASD

Bluetooth control unit for LED drivers



Dimensions



Dimensions are in mm.

* Tc point is on bottom side



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.

Description

CBU-ASD is a wireless control unit for any type of drivers with 0-10V, 1-10V or DALI dimming interface. CBU-ASD is available with either analog 0-10V (and 1-10V) or digital Standalone DALI control 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 luminaires can be controlled from any point. No external gateway module is needed. CBU-ASD can be controlled also from 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.

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

****Risk of fire.** Mains output is only allowed to connect to external relay. It must not be connected to LED driver mains input.

0-10V Output

Voltage range: 0-10 VDC
Maximum number of drivers connected: 1 pc

DALI Output

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

Radio transceiver

Operating frequencies: 2400...2480 Mhz
Maximum output power: +4 dBm

Operating conditions

Ambient temperature, ta: -20...+50 °C (Iout 0 A)
****Ta max 50 °C.** Derate output current linearly from +40 °C...+ 50 °C...

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 mm²
14-22 AWG

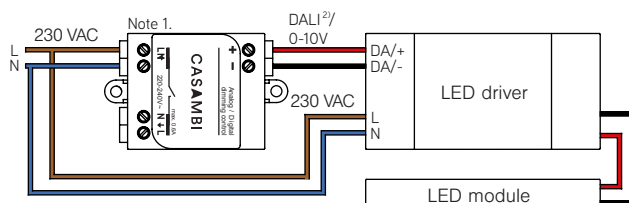
Wire strip length: 6-7 mm
Tightening torque: 0,4 Nm

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

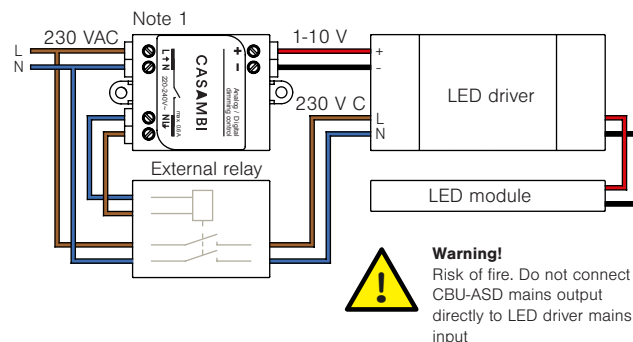
Wiring diagram, directly powered DALI or 0-10V drivers

Suitable for drivers that can be switched off via control interface



Wiring diagram, 1-10V drivers powered through external relay

Suitable for drivers that cannot be switched off via control interface



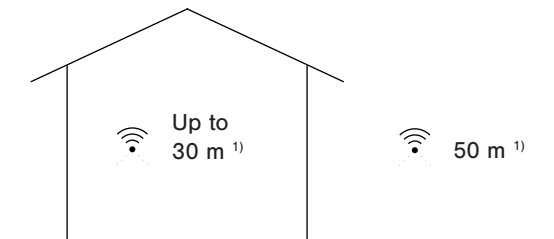
Note 1. CBU-ASD is a built-in class II device. Use double insulated wires or an external mounting box if the device is not mounted inside another insulated device.

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 or 0/1-10V driver) to one CBU-ASD.

Range

Compatible devices:

iPhone iOS 10 and later are supported
 iPad iOS 10 and later are supported
 Android 4.4 version (KitKat)
 and later are supported



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

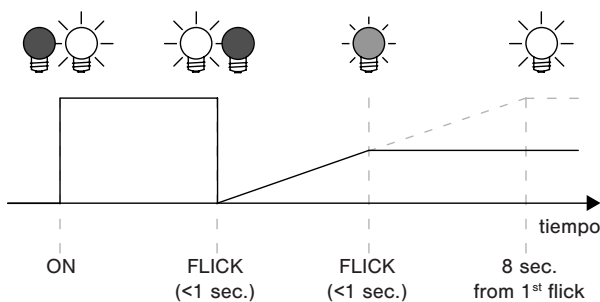
1) Range is highly dependant on the surrounding and obstacles, such as walls and building materials.

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.

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.

Fixture profile

Type	Profile #	Profile	Description
DALI DT 8	8631	DALI DT8 2xDim, TW	2 dimmers with common tuneable-white control for CBU-ASD with 2 DALI DT8 drivers (CCT).
	8632	DALI DT8 3xDim,TW	3 dimmers with common tuneable-white control for CBU-ASD with 3 DALI DT8 drivers (CCT).
	3213	DALI DT8 RGB	3-channel (RGB) DALI DT8 dimmer supporting 'RGBWAF' color-type input: Dim and RGBWAF channels
	4845	DALI DT8 RGB+TW 2500-7000K	DALI DT8 dimmer with mutually exclusive RGB or TC (color temperature) controls
	3214	DALI DT8 RGBW	4-channel (RGBW) DALI DT8 dimmer supporting 'RGBWAF' color-type input: Dim and RGBWAF channels
	2808	DALI DT8 TW 2700-6500K	Dimmer with tuneable white for CBU-ASD with DALI DT8 driver supporting TC color model: warm/cool mixing is done by DALI driver, and CBU-ASD sets dimlevel and temperature values.
	4268	DALI DT8 TW 3000-5000K	Dimmer with tuneable white for CBU-ASD with DALI DT8 driver supporting TC color model: warm/cool mixing is done by DALI driver, and CBU-ASD sets dimlevel and temperature values.
	12892	DALI DT8 XY (EVO)	Multichannel DALI DT8 dimmer supporting 'XY' color-type control
	12890	DALI DT8 XY,TW (EVO)	Multichannel DALI DT8 dimmer supporting 'XY' color-type control
	5245	DALI/BC DT8 TW	Dimmer with tuneable white for CBU-ASD with DALI DT8 driver supporting TC color model: warm/cool mixing is done by DALI driver, and CBU-ASD sets dimlevel and temperature values.
DALI sensors	8642	DALI Sensors (Daylight control, Presence)	Fixture providing presence and/or daylight sensing in the Pass-Through mode - delivering control commands observed on DALI bus.
	5002	DALI Sensors (Lux, Presence)	Fixture providing presence and/or daylight sensing in the Pass-Through mode - delivering control commands observed on DALI bus.
	9335	DALI/BC+Sensors	Basic DALI broadcast dimmer, no short addressing required.
DALI	93	DALI 1xDIM (AO)	Basic DALI dimmer, using address #0 for dimming channel.
	8800	DALI 2CH Dim Mixer	Luminaire with dimmer and vertical ratio selector (sum of channels is same as dim level)
	8699	DALI 2CH TW (G0,G1)	Two channel warm/cool mixer.
	141	DALI 2xDIM	Two channel luminaire. Dimmer #1: address #0, Dimmer #2: address #1
	8670	DALI 2xDIM (G0,G1)	Two channel luminaire. Dimmer #1: address #0, Dimmer #2: address #1
	8799	DALI 2xDIM (preconfigured)	Two channel luminaire. Dimmer #1: address #0, Dimmer #2: address #1
	9308	DALI 2xDim,TW	Four channel warm/cool mixer with two dimmer controls and shared color temperature control. 1x4-channel or 2x2-channel DALI driver(s)
	10001	DALI 2xDim,TW(NoMix) shared	Two channel warm/cool without mixing. Address 0 will receive dim level and address 1 will receive tunable white ratio.

	176	DALI 3xDIM	Three channel luminaire. Dimmer #1: address #0, Dimmer #2: address #1, Dimmer #3: address #2
	1272	DALI 4xDIM	Three channel luminaire. Dimmer #1: address #0, Dimmer #2: address #1, Dimmer #3: address #2, Dimmer #4:address #3
	8386	DALI 4xDIM (G0..G3<)	Three channel luminaire. Dimmer #1: address #0, Dimmer #2: address #1, Dimmer #3: address #2, Dimmer #4:address #3
	8789	DALI 4xDIM (new)	Three channel luminaire. Dimmer #1: address #0, Dimmer #2: address #1, Dimmer #3: address #2, Dimmer #4:address #3
	90*	DALI Broadcast (min)	Basic DALI broadcast dimmer, no short addressing required.
	3111	DALI Broadcast NO RELAY (log)	Basic DALI broadcast dimmer, no short addressing required.
	11773	DALI Broadcast (new) (lin)	Basic DALI broadcast dimmer, no short addressing required.
	3100	DALI Broadcast (new) (log)	Basic DALI broadcast dimmer, no short addressing required.
	12645	DALI RELAY 1CH Dim	Fixture using DALI channels with custom elements. ON/OFF toggle. This fixture does not provide any built-in lighting controls. On CBU-ASD only supported attribute type is Slider.
	91	DALI RGB	Three channel RGB fixture, Red: address #0, Green: address #1, Blue:address #2
	1166	DALI RGB White	Four channel RGB fixture with white. RGB is always present but amount of white can be adjusted.
	3251	DALI RGB White (auto)	Four channel RGB fixture with white. RGB is always present but amount of white can be adjusted.
	2872	DALI RGB (auto)	Three channel RGB fixture. Red: address #0, Green: address #1, Blue: address #2
	165	DALI Tunable White	Two channel warm/cool mixer.
	8624	DALI Tunable White (G0,G1)	Two channel warm/cool mixer.
	3548	DALI Tunable White (auto)	Two channel warm/cool mixer.
Misc.	3174	Presence	CBU-ASD acting as presence sensor attached to smart switch or to low voltage digital/analog interface as push button.
	1000	0/1-10	Basic one channel 0-10V dimmer.
	5678	Relay	Fixture using DALI channels with custom elements. This fixture does not provide any built-in lighting controls. On CBU-ASD only supported attribute type is Slider.
	6552	Relay+PB	CBU-ASD with low voltage push button connected to Analog / Digital dimming interface.
	1031	Push Button	Unit with one push button (momentary action switch). In case of CBU-ASD there is a single low voltage push button that can be connected to Analog / Digital dimming interface.

*Default profile