



CBU-ASR

Bluetooth controllable dimmer



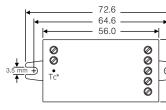
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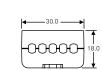


Warning!

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.

Dimensions





Dimensions are in mm.

* Tc point is on bottom side

Description

CBU-ASR is a Bluetooth controllable, Casambi enabled two channel 0-10V controller for dimmable LED loads and luminaires. It is powered by an external 12-24 VDC Class 2 power supply.

CBU-ASR can control two channels making it an ideal partner for tunable white (TW) applications. The two channels can be configured also to operate individually. The device also has a control port for an external relay and a sensor input.

CBU-ASR is an ideal partner for power packs with line voltage relays. It is protected against overvoltage, overcurrent and short circuit situations.

CBU-ASR together with other Casambi enabled products can be used from a simple one luminaire direct control to a complete and full featured light control system where up to 250 units form automatically an intelligent mesh network. Casambi supports nearly unlimited number of mesh networks in an installation site.

The Casambi system can be controlled with Casambi app which can be downloaded free of charge from Apple App Store and Google Play Store. Other controlling methods are, for example, timers, Casambi enable sensors, such as PIR/occupancy and lux sensors, as well as Casambi Xpress and EnOcean switches.

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Installation

The product has one return line which is shared between the two 0-10V outputs, relay control output and sensor input. The two 0-10V outputs can be configured for different functions, such as 2 channel tunable white, or 1-2 jointly and individually dimmable channels. The standard configuration when delivered is 2 channel dimming, but the configuration can be changed by the end user from the Casambi App.

Do not connect a typical PCB relay to the Relay output. The connected relay must have a flyback diode in place to protect the CBU-ASR against overvoltage spikes.

CBU-ASR, as any other Casambi product, should not be placed in a metal enclosure, such as metal junction boxes. Metal will attenuate radio signals which are crucial to the operation of the product. If the product will have to installed into a junction box, make sure to use a plastic junction box.

Wiring diagram



* The relay must be protected against inductive over voltage spikes, i.e. it must have a flyback diode. Do not connect relay without the diode.

Range

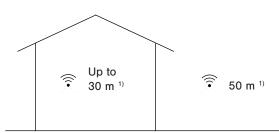
The range between two CBU-ASR units or between a CBU-ASR and a smart phone can vary a lot depending on obstacles and surrounding material. In open air the range between two CBU-ASRs can be in excess of 50m, but if the unit is encapsulated into a metal structure, the range can be only few metres. Therefore, thorough testing is highly suggested.

Casambi uses mesh network technology so each CBU-ASR acts also as a repeater. When testing the network, it is important to test that each unit can be controlled from any point of the network covered area.

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.

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Technical Data

Input

Voltage range No-load input current: 12-24 VDC, Class 2 30 mA

0-10V output (both channels)

Output voltage: Max. output current per channel:: 0-10 VDC, adjustable 5 mA, sinking and sourcing

12-24 VDC, same as input

Relay control output

Output voltage: Max. output current:

Sensor input Input voltage: Input resistance:

Max. 24 VDC >80 kΩ

2400-2480 MHz

typ. +0 dBm, +/-3dBm

100 mA

Radio transceiver

Operating frequencies: Maximum output power:

Operating conditions

Ambient temperature, ta: Max. case temperature, tc: Storage temperature: Max. relative humidity:

Connectors

Wire range, solid & stranded: Wire strip length: Tightening force:

Mechanical data

Dimensions: Weight:

FCC ID: UL: -25...+45 °C +75 °C -25...+75 °C 0...80 %, non-condensing

0,5-1,5 mm² / 14-22 AWG 6-7m 0,4 Nm

72,6 x 30,0 x 18,0 mm 23 g

2ALA3-CBUASR ListedUL /. UL Plenum Rated (UL 2043)

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Fixture profile

Profile #	Profile	Description
3438	1xDIM	Basic one channel PWM dimmer.
4423 *	2xDIM	Two channel PWM dimmer.
5049	2xDIM (Lux)	Two channel PWM dimmer.
10515	2xDIM (Presence)	Two channel PWM dimmer.
12354	TW	Two channel warm/cool mixer.
7652	TW/NoMix	Dimmer with tuneable white. Note that this mode does not perform warm/cool mixing, it directly sends dimmer value to output 0 and temperature value to output 1.

*Default profile

Notes

Information in this document is subject to change. CBU-ASR Data Sheet V2.0

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