

Wireless bluetooth converter (A90291)



Product 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.

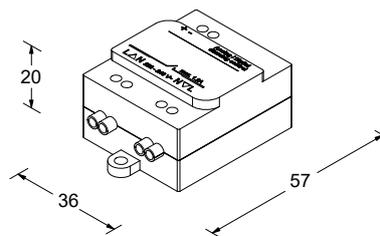
With Standalone DALI output, CBU-ASD acts both as a controller and as a power supply making it possible to connect directly to an LED driver with DALI interface without the need for an external DALI power supply. This so-called standalone DALI makes it possible to implement multi-channel lighting systems 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.

Product dimensions



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Technical information

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 mm ² 14-22 AWG
Wire strip length:	6-7 mm
Tightening torque:	0,4 Nm

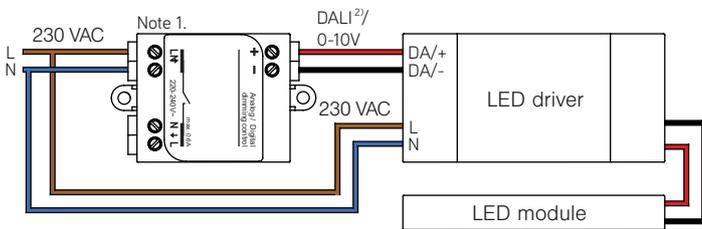
Mechanical data

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

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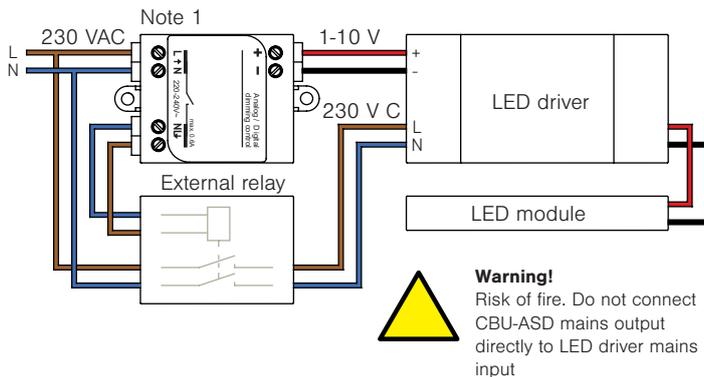
Wiring diagram, directly powered DALI or 0-10V drivers

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.