ENTRY
Casambi Ready DALI controller

1. Description

ENTRY is a Casambi Ready wireless DALI controller with integrated DALI power supply. Depending on model, it can control 1-5 or 1-40 DALI LED drivers.

ENTRY is fully Casambi compatible and can be a part of Casambi mesh network with up to 250 devices in one network. It can be controlled wirelessly by an Android and iOS device. The Casambi app can be downloaded free of charge from Apple App Store on Google Play Store.

The module is designed to be integrated inside a luminaire with very small form factor and quick connect wire terminals. It supports up to 8 channel operation, so various types of luminaires can be realized with a single module, including RGB, RGBTW, tunable white and up/down luminaires.

2. DALI output

ENTRY has two models available; ENTRY 10 and ENTRY 80.

ENTRY 10 has an internal DALI power supply with max. 10 mA output current. It can control 1-5 DALI LED drivers and has up to 5 separate channels.

ENTRY 80 has an internal DALI power supply with max. 80 mA output current. It can control 1-40 DALI LED drivers and has up to 8 separate channels.

Both models can be used either in DALI Broadcast mode, or they can assign the DALI addresses automatically for different channels.

ENTRY has an integrated DALI power supply connected to its DALI output by default. In this stage ENTRY can control DALI LED drivers directly without the need for a separate DALI power supply.

When the internal DALI power supply is enabled, ENTRY cannot be connected to a DALI line where there is another DALI power supply present. Before connecting ENTRY make sure there are no other DALI power supplies present. This can be verified by measuring the voltage of the DALI line before connecting ENTRY to it. The voltage reading should be 0 VDC when there is no DALI power supply connected.

This requirement applies also to LED drivers with integrated DALI power supplies. Make sure their DALI power supplies are turned off before connecting them to ENTRY.

ENTRY's integrated DALI power supply can also be disconnected from the DALI output. This is done by disabling the DALI power supply from device settings in Casambi app, after which it can be used in a DALI network where there is another DALI power supply present, including D4i drivers.

Warning!
Make sure there are no other DALI power supply, including drivers with integrated DALI PSU, powering the DALI line before connecting ENTRY to it.



3. Placement

ENTRY is a radio device with an integrated antenna. In order to ensure a decent radio range, it is important to install the module in a place where the radio signal can exit easily. For this reason, do not place the module into an enclosed metal housing. The antenna is right below the top cover of the product, so make sure there are no metal objects close to it.

Another aspect to consider is the ambient and case temperature of the installation location. Placing the module into as cool environment as possible extends its lifetime. Placing ENTRY close to the luminaire's LED module, or its heatsink, will shorten the product's lifetime and may lead to premature failures.

Warning!
For reliable operation, do not cover ENTRY with metal.

Note
The actual control range is affected by the luminaire, installation location, building materials, etc. The actual realized range must be tested and approved in the final installation.

4. Operating modes

ENTRY is a very versatile product. Depending on model, it can control either up to 5 or up to 8 separate channels in many different configurations, such as normal 1-channel dimming, RGB, RGBTW, tunable white, up/down, etc. Also the integrated DALI power supply can be taken into use or disconnected from the DALI output.

Operating modes (profiles) and internal DALI power supply state can be changed using Casambi app.

5. Disposal

Dispose devices in accordance with the WEEE directive to suitable recycling facilities.

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6. Wiring

Wiring information
Mains supply wire range 0,5-1,5 mm^2.
DALI output wire range 0,5-1,5 mm^2.

Use solid wire or stranded wire with ferrules.

Max. DALI wire length 5 m with 1 mm^2 wires when internal DALI PSU is used.

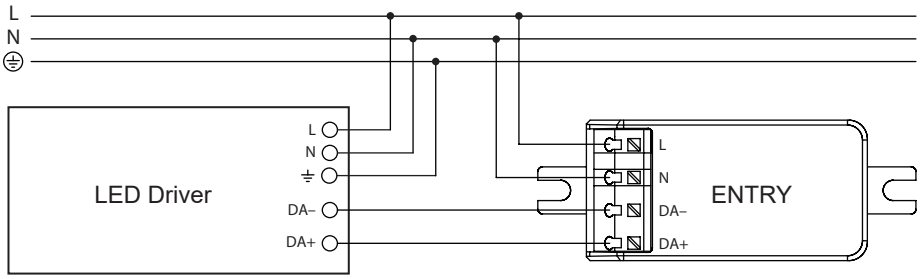
Strip the wire 8 mm.

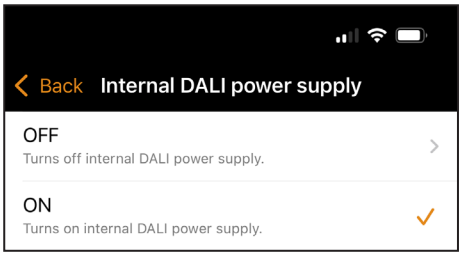
Use only one wire per terminal pole.

Built-in control gear
Even though ENTRY has internally reinforced insulation, and therefore meets the requirements of Class II device, the exposed wires connected to the device have only a single insulation.

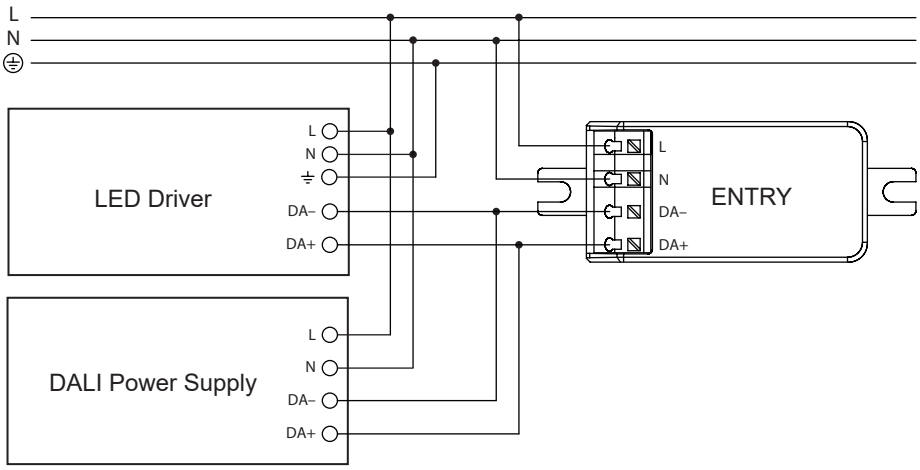
Therefore ENTRY must rely upon the luminaire enclosure, or some other type of external housing, for protection against accidental contact with live parts.

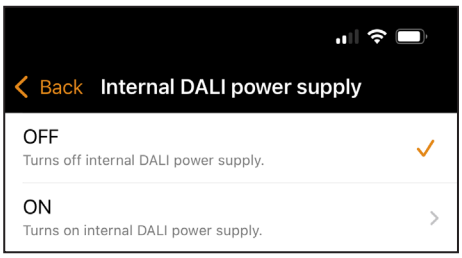
6.1 Wiring without external DALI power supply





6.2 Wiring with external DALI power supply





6.3 Internal DALI power supply

ENTRY has an internal DALI power supply enabled by default. Do not connect any other DALI power supplies in the same DALI network while ENTRY's DALI power supply is enabled.

ENTRY can also be used in a DALI network where there is another DALI power supply present. Same way, ENTRY can also be used with LED drivers which have their own internal DALI power supply, such as D4i drivers.

In such case, the ENTRY's internal DALI power supply must be disabled. This can be done using Casambi app by double-tapping the ENTRY icon, scrolling down to a section called "Internal DALI power supply" and turning it off there.

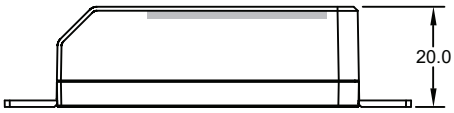
ENTRY comes in two versions; ENTRY 10 and ENTRY 80. Both models are identical in dimensions. The differences are in DALI power supply specifications and features.

ENTRY 10 has an internal DALI power supply with max. 10 mA output current. It can control 1-5 DALI LED drivers and has up to 5 separate channels.

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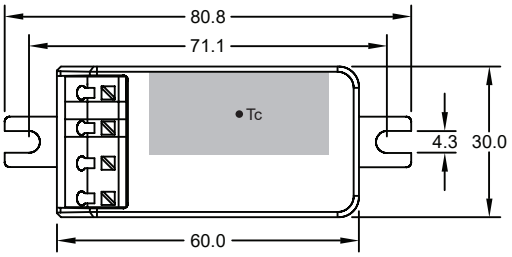
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7. Dimensions



All dimensions in mm.

Antenna placement



8. Ordering information

Product name	Article number	Qty per carton	Weight per pc	Weight per carton
ENTRY 10	2000-1-ENTRY10	10 pcs / 100 pcs	31 g	350 g / 4 kg
ENTRY 80	2000-1-ENTRY80	10 pcs / 100 pcs	31 g	350 g / 4 kg

9. Technical data

Input	
Input voltage	220-240 VAC
Mains frequency	50-60 Hz
Max. input current	30 mA
Typical power consumption at idle	< 500 mW
Protection class	Built-in Class II

Output	
Output type	DALI (compatible)
Output voltage	16 VDC
Guaranteed output current	
ENTRY 10	10 mA
ENTRY 80	80 mA
Max. output current	250 mA
Number of channels	
ENTRY 10	1-5
ENTRY 80	1-8

Radio	
Frequency range	2402-2480 MHz
Max. transmit power	+8 dBm

Mechanical	
Dimensions	80,8 x 30,0 x20,0 mm
Weight	31 g
Protection degree	IP20
Wire range, mains supply	0,5-1,5 mm^2
Wire range, DALI	0,5-1,5 mm^2
Wire preparation	Strip 8 mm
Max. DALI wiring length	5 m at 1 mm^2

Environmental and lifetime	
Ambient temperature, ta	-20...+60°C
Max. case temperature, tc	+75°C
Storage temperature, ts	-20...+70°C
Max. relative humidity	5-85%, non-cond.
Lifetime	up to 50 000 h*

*Lifetime is specified at max. ta with failure probability of less that 10%.

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