This is a wireless control unit for LED and halogen drivers with 0-10V, 1-10V or DALI dimming interface. The control output can be configured either as analog 0-10V (and 1-10V) or digital Standalone DALI control interface.

When the output is configured as Standalone DALI, the device 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) or color temperature, while keeping the wiring and number of components at their minimum. This device 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.

The device is controlled wirelessly with smartphone and tablet applications using Bluetooth 4.0 protocol. Devices form automatically a secure wireless mesh network so that a large number of units can be controlled from any point. No external gateway module is needed. This device 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 the device 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: 0.5 A
- Outputs
  - Number of outputs: 5
  - Output relay: SSR on phase line
  - Voltage range: 220-240 VAC
  - Frequency: 50 Hz
- 0-10V Output
  - Voltage range: 0-10 VDC
  - Max. sink/source current: 7 mA
- Radio transceiver
  - Operating frequencies: 2.4...2.483 GHz
  - Maximum output power: +6 dBm
- Operating conditions
  - Ambient temperature, °C: -20...+70
  - Max. case temperature, °C: +70
  - Storage temperature: -25...+75
  - Max. relative humidity: 0...80%, non-cond.
- Connectors
  - Wire size, solid & stranded: 0.75-1.5 mm²
  - 12-14 AWG
  - Wire strip length: 6-7 mm
  - Tightening torque: 0.4 Nm (1 kgf cm/2.5 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: IIA
- Part numbers:
  - 164 19 04 99 72: 0-10V
  - 164 19 04 99 74: Dali broadcast 1ch
  - 164 19 04 99 78: Dali 2ch dim
  - 164 19 04 99 79: Dali 3ch dim
  - 164 19 04 99 77: Dali 4ch dim
  - 164 19 04 99 78: Dali 2ch tunable white
  - 164 19 04 99 88: Dali 3ch RGB
  - 164 19 04 99 99: Dali 4ch dim, RGBW
  - 164 19 04 80: Dali 4ch dim, RGBW

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First time use
Casambi app is easy to take into use. Follow these simple steps.
1. Download the app from Apple App Store or Google Play Store.
2. Turn on your Casambi enabled luminaires.
3. Open the app.
4. Casambi app will automatically find all Casambi enabled luminaires that are switched on.
5. Tap on the "Take all lamps into use".
6. Casambi app will automatically add all luminaires to one network and open the "Lamps" tab.

Basic gestures
Here are the basic gestures on how to control your lights.
- To turn on or off your luminaire just tap on the temp control.
- Pan temp control left or right to adjust light level of the luminaire.
- Pan temp control up or down to adjust the colour temperature of the luminaire.
- Hold on top of the temp control to change the colour.

Gallery
The Gallery in Casambi app is the most natural way of controlling your luminaires. Take a picture of the room where your luminaires are, and place temp control over them in the picture.
1. Add a photo of your room to Casambi Gallery by tapping "Edit" and after that the "+" sign.
2. After you have added a photo you can add temp control to the picture. Tap on the "+" sign, ask a temp control that you want to add to the picture and tap "Done".
3. After you have added controls over all the luminaires in the picture tap "Done".
4. Now you can control your luminaires visually from the picture. No need to guess which luminaire is which.

Networks and Sharing
If you want to control your luminaires from more than one mobile device you can change the network sharing settings from Networks settings.
1. Go to "More" tab and select "Networks settings".
2. Tap on the Sharing and the "Sharing mode" screen will open.
3. There are four different sharing modes: Not Shared, Administrator only, Password protected and Open.
4. Confirm your settings with "Save".

Scenes
In the "Scene" tab you can create different lightings for different occasions. It is possible to control multiple luminaires with one tap to create perfect ambiance. One luminaire can be used in several scenes.
1. Tap on "Add scene" and enter a name for the scene.
2. Select one or multiple temp control and adjust the luminaires for the scene. You can adjust the luminaires separately or if you want to have the same intensity or colour for all you can use the "Lamps in scene" control to adjust all luminaires in the scene.
3. When you are done editing the scene tap on the "Save".
4. If you would like to create more scenes tap on the "Edit" in scene tab and then tap on the "+" sign.