Standalone Casambi to DALI + 0/1-10V Controller

CE RoHS COMPLIANT CASAMBI

Important: Read All Instructions Prior to Installation

Function introduction

DALI (DA, DA) or 0/1-10V output (+, -), configurable by
Casambi app, DALI DIM/DALI DT8 TW/DALI DT8 XY/
DALI DT8 RGBW/0-10V selectable
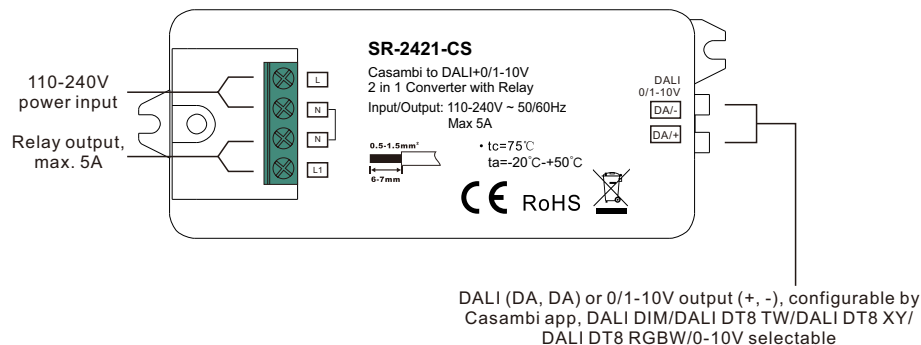
Product Description

Casambi to DALI+0/1-10V controller is designed as a standalone DALI and 0-10V controller with 50mA DALI bus current output and 20mA 0-10V current output. It can control DALI DT6, DALI DT8 TW, DALI DT8 XY, DALI DT8 RGBW, 0-10V LED drivers or luminaires. The control mode can be configured using Casambi App. Under DALI control modes, it supports up to 25 DALI LED drivers and no need extra DALI bus power supply. Just using Casambi App or wall switches to control DALI LED drivers and 0-10V LED drivers.

Casambi Technology Explained

The Casambi technology provides a mesh network where all the intelligence of the system is replicated in every node and, in such a way, creates a system with no single point of failure. In this kind of fully distributed architecture, any unit can go offline and catch up from others when they return back online.

Wireless Features

• Control a large number of fixtures from any point
• Simple to use UI
• Wide range of functionality – Grouping Luminaires, different lighting situations for different occasions, colour temperature, daylight sensor, occupancy sensor and much more.

Product Data

| Input		Output, DALI		Output, 0/1-10V		Output, relay		Environment		Others
Power	Signal	DALI PS current	DALI current consumption	Current	Switching voltage	Max. Current		Operating temperature	Relative humidity	Dimensions
110-240VAC	Casambi 2.4GHz	Max. 50mA	Max. 4mA	Max. 20mA	110-240VAC	Incandescent: 5A LED: 1.6A		-20℃-+50℃	8% to 80%	95x37x20mm

Key Features

• Casambi to DALI+0/1-10V controller, works with Casambi network
• Casambi signal input, DALI output to DALI line or 0/1-10V signal output, 110-240VAC power input
• With relay output, max. 5A for traditional incandescent & HV halogen lamps, max 1.6A for LED load
• Can be controlled by both Casambi App and Casambi wall switches
• DALI signal or 1-10V signal output selectable by Casambi App
• DALI DT6, DALI DT8 TW, DALI DT8 XY, DALI DT8 RGBW, 0-10V control modes configurable by Casambi App
• Built-in DALI bus power supply, no extra DALI bus PS required
• With max. 50mA DALI bus power current output
• To supply control current to up to 25 DALI control gears
• Easy commissioning with Casambi App
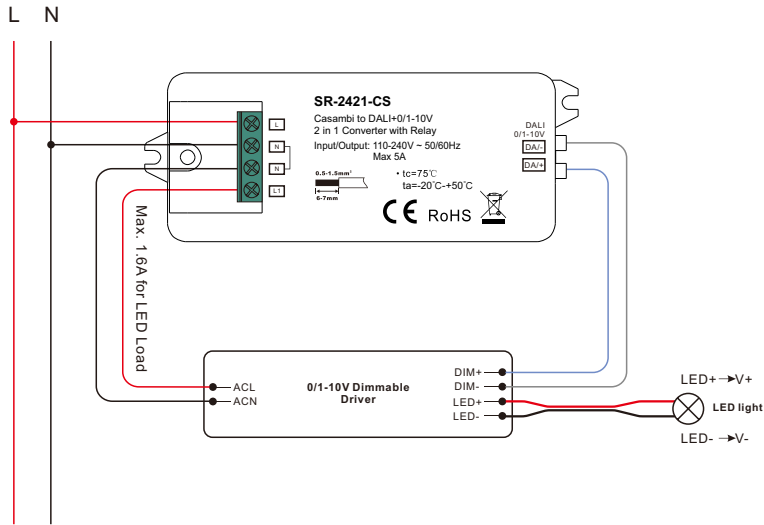
Product Dimension
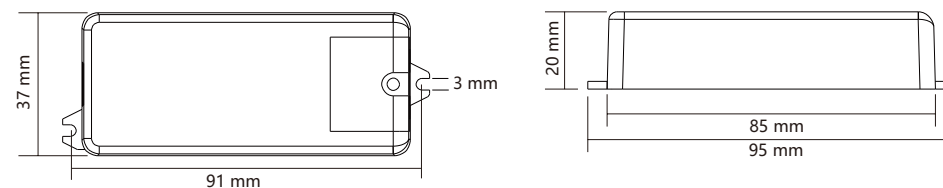
Wiring Diagram

When DALI Output Selected (Please make sure the correct profile is selected before wiring)
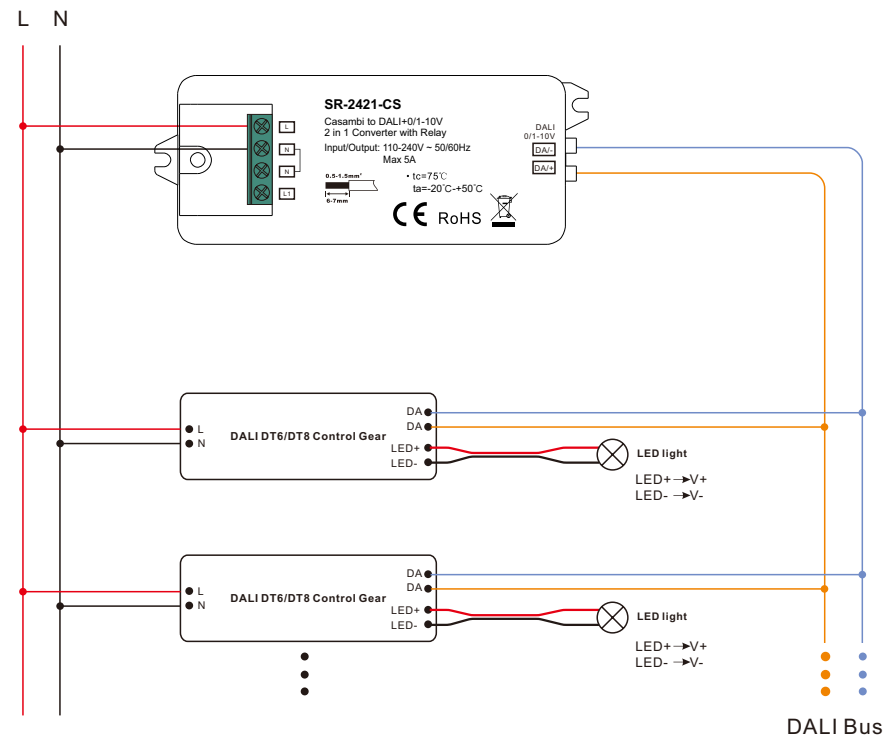
Note: Max. 50mA DALI bus PS output to supply control current to up to 25 control gears.

When 0/1-10V Output Selected (Please make sure the correct profile is selected before wiring)
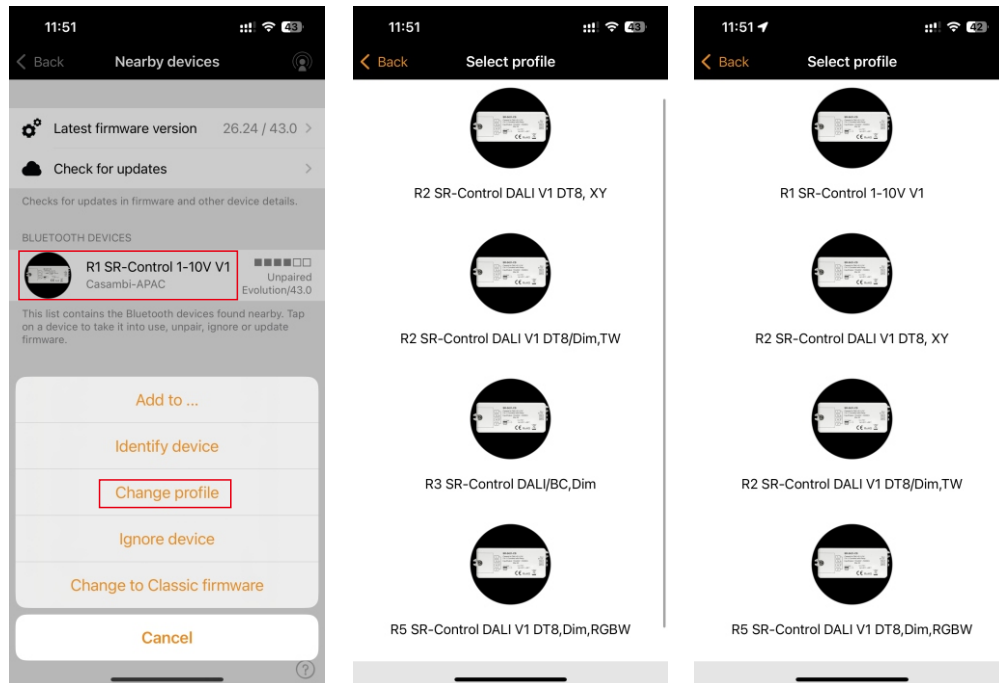
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The control logic of the 5 profiles are as follows:

1. SR-Control 1-10V: controls 1-10V dimmable drivers or luminaires, up to 20 drivers or luminaires can be connected in parallel.
2. SR-Control DALI/BC,DIM: broadcast control of up to 25 DALI DT6 LED drivers or luminaires, on/off, brightness control.
3. SR-Control DALI DT8/DIM, TW: controls DALI DT8 tunable white LED drivers or luminaires with DALI address 0, on/off, brightness, color temperature control.
4. SR-Control DALI DT8,DIM,RGBW: controls DALI DT8 RGBW LED drivers or luminaires with DALI address 0, on/off, brightness, RGBW color control.
5. SR-Control DALI DT8,XY: controls DALI DT8 XY LED drivers or luminaires with DALI address 0, on/off, brightness, RGB color control.

Relay control: the relay is controlled by the dimmer slider of the 5 profiles, when the dimmer slider is adjusted over 0%, the relay will be switched on, when the dimmer slider is adjusted to 0%, the relay will be switched off.

Note: under "SR-Control DALI DT8,DIM,RGBW" profile, the relay can not be controlled, this issue will be fixed in future firmware update by Casambi.

Operation

Select Profile:
Factory default profile of this device is SR-Control DALI/BC, DIM , you can select a profile through the operation of "Change profile".
Power on the device, make sure the device is unpaired, open Casambi app, navigate to "Nearby devices", the device will be displayed, double click the device, then choose "Change profile" from the pop up menus, then select a profile as shown in following figures.