DALC NET

SLIM-CBU-DALI

Device Manual

Made in Italy

CASAMBI

DALI 2

FIXTURE ID 25618

FEATURES

- CONVERTER+CASAMBI+DALI+0/1-10V
- Input: 230Vac
- Command: CASAMBI APP
- Signal converter from Casambi to DALI
- Signal converter from Casambi to 0/1-10V
- Possibility to control DALI or 0/1-10V devices via the Casambi APP
- Provides power supply to the DALI bus.
- Extended temperature range
- 100% Functional test – 5 year warranty

PRODUCT DESCRIPTION

SLIM-CBU-DALI is a Casambi to DALI converter or Casambi to 0/1-10V signal. The device receives a command signal from the Casambi APP and converts it into a DALI or 0/1-10V command according to the selected fixture. Send DT6 and DT8 commands or analog commands from 0 to 10V. See the following table "TYPE OF PROFILES" for the reference of the Casambi-DALI conversion addresses.

The CASAMBI APP can be downloaded free of charge from the Apple App Store and the Google Play Store.

⇢ For the regularly updated manual, consult our website:www.dalcnet.com or QR Code
⇢ For the correct functioning of the CASAMBI APP, consult the forum on the Casambi website:
https://support.casambi.com/support/home

PRODUCT CODE

CODE	POWER SUPPLY	INPUT COMMAND	OUTPUT COMMAND	TYPE OF LOCAL COMMAND
SLIM-CBU-DALI	230Vac	APP CASAMBI	DALI (DT6-DT8)[1]	N° 1 N.O. Push Button

Address management (DALI variant) depends on the configuration of the Casambi module

PROTECTIONS

OVP	Over voltage protection	✓
IFP	Input fuse protection	✓

[1] Address management depends on the configuration of the Casambi module.

TYPE OF PROFILE

PROFILE NAME	# PROFILE	DESCRIPTION
DALI2 BROADCAST*	**25618 (Default)**	Dimmer broadcast DALI. DALI dimming curve: logarithmic. Set the power-on level to the maximum level (100% - 254). No addressing is required.
0/1-10V 1CH	29126	One channel dimmer: - Analog output for controlling devices 0/1-10V
W AUTOMATIC	30407	One channel dimmer: - Dimmer 1: address A0 DALI dimming curve: logarithmic. Set the power-on level to the maximum level (100% - 254). The address is automatically assigned to the device if needed
WWWW AUTOMATIC	30408	Four channels dimmer: - Dimmer 1: address A0 - Dimmer 2: address A1 - Dimmer 3: address A2 - Dimmer 4: address A3 DALI dimming curve: logarithmic. Set the power-on level to the maximum level (100% - 254). The address is automatically assigned to the device if needed.
TW AUTOMATIC 2700-6000K	30409	Two channels dimmer: - Dimmer 1: address A0 – Warm White - Dimmer 2: address A1 – Cool White DALI dimming curve: linear. Set the power-on level to the maximum level (100% - 254). The address is automatically assigned to the device if needed.
RGB AUTOMATIC	30410	Three channel dimmers. - Dimmer 1: address A0 – Red - Dimmer 2: address A1 – Green - Dimmer 3: address A2 – Blue DALI dimming curve: linear. Set the power-on level to the maximum level (100% - 254). The address is automatically assigned to the device if needed.
RGB+W AUTOMATIC	30411	Four channel dimmers. - Dimmer 1: Red - Dimmer 2: Red - Dimmer 3: Blu - Dimmer 4: White DALI dimming curve: linear. Set the power-on level to the maximum level (100% - 254). The address is automatically assigned to the device if needed.
RGB+TW AUTOMATIC	30412	Five-channel dimmer. - Dimmer 1: Red - Dimmer 2: Green - Dimmer 3: Blu - Dimmer 4: Warm white - Dimmer 5: Cold white DALI dimming curve: linear. Set the power-on level to the maximum level (100% - 254). The address is automatically assigned to the device if needed.

*The Device is certified as DALI2 only with the profile: **25618** – DALI2 BROADCAST

PROFILE NAME	# PROFILE	DESCRIPTION
WWWW GROUP	30416	Four DALI groups, dimmer function. - Dimmer 1: group G0 - Dimmer 2: group G1 - Dimmer 3: group G2 - Dimmer 4: group G3 DALI dimming curve: logarithmic. Set the power-on level to the maximum level (100% - 254). The address must be assigned to the device using a DALI Master device.
TW GROUP	30417	Two DALI groups, dimmer function. - Dimmer 1: group G0 – Warm White - Dimmer 2: group G1 – Cool White DALI dimming curve: linear. Set the power-on level to the maximum level (100% - 254). The address must be assigned to the device using a DALI Master device.
RGB GROUP	30418	Three DALI groups, dimmer function. - Dimmer 1: group G0 – Red - Dimmer 2: group G1 – Green - Dimmer 3: group G2 – Blue DALI dimming curve: linear. Set the power-on level to the maximum level (100% - 254). The address must be assigned to the device using a DALI Master device.
RGB+W GROUP	30419	Four DALI groups, dimmer function - Dimmer 1: group G0 – Red - Dimmer 2: group G1 – Green - Dimmer 3: group G2 – Blue - Dimmer 4: group G3 – White Set the power-on level to the maximum level (100% - 254). The address must be assigned to the device using a DALI Master device
RGB+TW GROUP	30420	Four DALI groups, dimmer function - Dimmer 1: group G0 – Red - Dimmer 2: group G1 – Green - Dimmer 3: group G2 – Blue - Dimmer 4: group G3 – Warm white - Dimmer 4: group G3 – Cold white DALI dimming curve: linear. Set the power-on level to the maximum level (100% - 254). The address must be assigned to the device using a DALI Master device
8xW GROUP	30421	Eight DALI groups, dimmer function. - Dimmer 1: group G0 - Dimmer 2: group G1 - Dimmer 3: group G2 - Dimmer 4: group G3 - Dimmer 5: group G4 - Dimmer 6: group G5 - Dimmer 7: group G6 - Dimmer 8: group G7 DALI dimming curve: logarithmic. Set the Power on Level to the maximum level (100% - 254). The address must be assigned to the device using a DALI Master device

PROFILE NAME	# PROFILE	DESCRIPTION
DALI DT8 CB TW	30425	1 Address to control 2 TW channels. Send DALI DT8 BROADCAST commands for devices that support the "Colour Temperature Tc" function: Dim Level and Color Temperature. DALI dimming curve: linear. Set the power-on level to the maximum level (100% - 254). No addressing is required.
DALI DT8 CB RGB	30426	1 address to control 3 RGB channels. Send DALI DT8 BROADCAST commands for devices that support the "RGBWAF colour-type" function: Dim and RGBWAF. DALI dimming curve: linear. Set the power-on level to the maximum level (100% - 254). No addressing is required.
DALI DT8 CB RGB+W	30427	1 address to control 3 RGB channels. Send DALI DT8 BROADCAST commands for devices that support the "RGBWAF colour-type" function: Dim and RGBWAF. DALI dimming curve: linear. Set the power-on level to the maximum level (100% - 254). No addressing is required.
DALI BC DT8 DIM TO WARM	30428	1 Address to control 2 TW channels. DALI dimming curve: linear. Set the power-on level to the maximum level (100% - 254). No addressing is required.
DALI BC DT8 XY	30429	DALI DT8 multi-channel dimmer supporting 'XY' color type control
DALI BC DT8 XY-TW	30430	DALI DT8 multi-channel dimmer supporting 'XY-TW' color type control

REFERENCE STANDARDS

IN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
IN 61547	Equipment for general lighting purposes – EMC immunity requirement
IN 61347-1	Lamp Control gear – Part 1: General and safety requirement
IN 61347-2-11	Lamp Control gear – Part 2-11: Particular requirement for miscellaneous electronic circuits used with luminaires

TECHNICAL SPECIFICATIONS

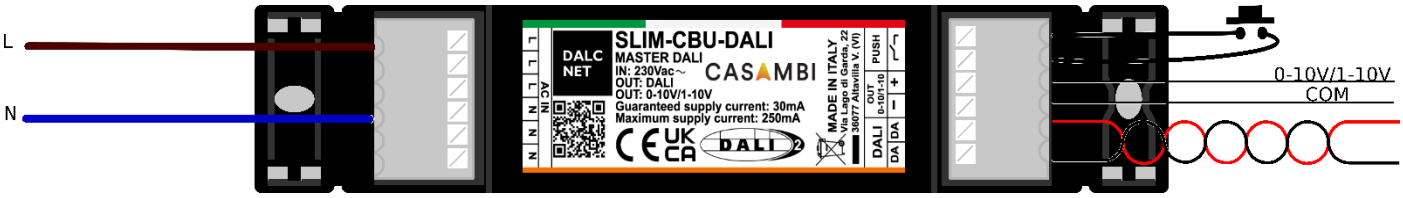
		SLIM-CBU-DALI
Supply voltage[2]		230Vac
Voltage range		100 … 240 Vac
Mains frequency		50/60Hz
Nominal power @230V[2]		3W max
Power loss in standby mode		<500mW
Operating Frequencies		2402 – 2480 MHz
Maximum output power[3]		7dBm
Storage temperature[3]		Min: -40°C Max: +60°C
Ambient temperature, Ta Range[2]		Min: -25°C Max: +60°C
Type of connector		Push-In terminals
Wiring	Solid size	0,2 ÷ 1,5 mm^2 / 24 ÷ 16 AWG
	Stranded size	
Wire strip length		9 ÷ 10 mm
Protection class		IP20
Casing material		Plastic
Packaging units (pieces/units)		1pcs
Mechanical dimensions		136 x 29 x 21 mm
Packaging dimensions		147 x 34 x 29 mm
Weight		62 g

	BUS DALI
I Output (Only for DALI)[4]	30mA
V Output (Only for DALI)[4]	14V

	0/1-10V ANALOG OUTPUT
0-10V – Sink current or Source	10mA
1-10V – Sink current or Source	10mA

[2] Maximum value, dependent on ventilation conditions.
[3] The parameters are derived from the configuration of the Casambi module.
[4] The SLIM-CBU-DALI has an integrated DALI power supply. Before connecting the SLIM-CBU-DALI to a DALI line, please make sure that no other DALI power Supply is powering the bus.

WIRING DIAGRAM



Follow the steps below for product installation as shown in the connection diagram.

- Installation and maintenance must only be performed by qualified personnel in compliance with current regulations.
- Installation and maintenance must be performed in the absence of voltage. The power supply must be protected. The product must be protected by a suitably sized circuit breaker.
- Connect the normally open button to the PUSH terminals with the symbol "⌐¬". Make sure not to connect live parts to the PUSH terminals.
- Connect the DALI BUS to the "DALI" terminals or connect the 0/1-10V signal to the "OUT 0-10/1-10V" terminals following the polarity "+" and "- "
- Connect the power cables to the "AC IN" terminals

Like any other product with Bluetooth control, be sure not to place the product inside a metal case or placed near large metal structures. The metal will significantly obstruct the radio signal, which is crucial for the proper functioning of the device.

LOCAL COMMANDS OPERATION

BUTTON COMMAND NORMALLY OPEN[5]

The Casambi app allows you to program the local command with some prearranged functions.

N° Push Button	Functions		
1	Controls a luminaire	Click Long press (>1s)	Tap to turn a luminaire on or off – hold to adjust luminaire brightness
	Controls an element	Click Long press (>1s)	Tap to turn a device element on or off – hold to adjust the element value
	Control a group	Click Long press (>1s)	Tap to turn a group on or off – hold to adjust brightness
	Control scene	Click Long press (>1s)	Tap to turn a scene on or off – hold to adjust scene brightness
	Control all luminaires	Click Long press (>1s)	Tap to turn all luminaires on or off – hold to adjust brightness
	Cycles scenes	Click Long press (>1s)	Tap to cycle through the list of scenes – hold to adjust current scene brightness
	Active/Standby	Click Long press (>1s)	Tap to switch between two scenes – hold to adjust current scene brightness
For all other functions, please refer to the CASAMBI APP document at: **https://support.casambi.com/support/home**			

UNPAIR DEVICE FROM THE CASAMBI NETWORK

If the device is already connected to a network for which you don't have the credentials and you wish to associate it with a new network, please follow the instructions provided in the Casambi APP's "Nearby Devices" section.
Once the decoupling sequence has started, switch off the main power supply of the Power Supply connected to the SLIM-CBU-DALI and switch it on again within 1 – 2 seconds.

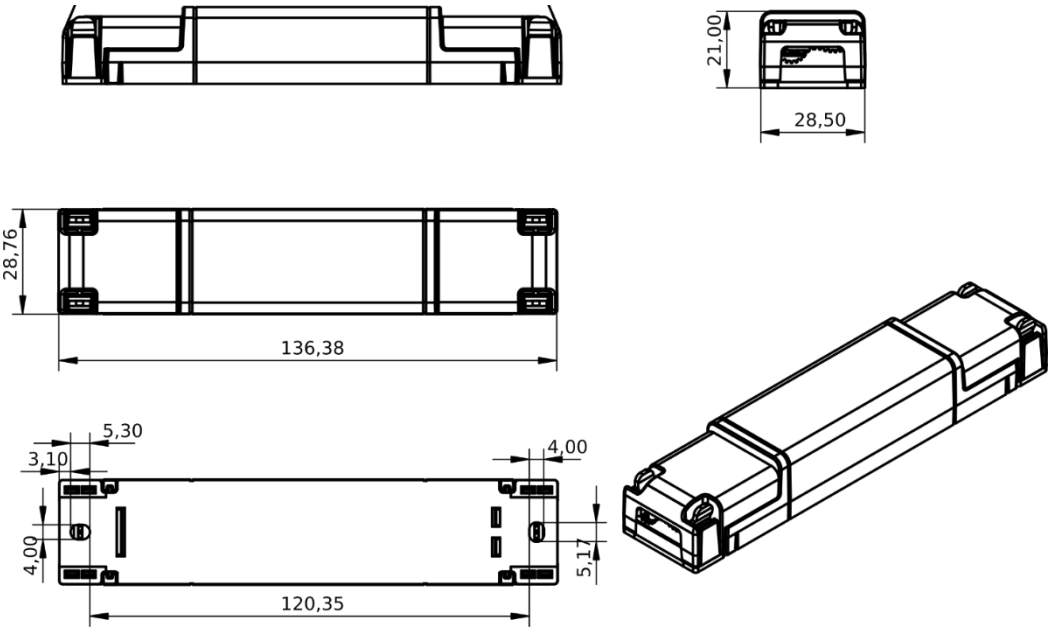
If you do the procedure too quickly, the decoupling may not work properly. Repeat the uncoupling sequence, allowing an extra 1 or 2 seconds to pass between the instant in which the main power supply of the Power Supply is switched off and on again[6].

A second method to decouple the product is to connect an N.O. to an "INPUT" input of the SLIM-CBU-DALI and during the uncoupling procedure press the button.

[5] By default, the button is set as "Control a lamp"

[6] The discharge time of the power supply secondary depends on the construction characteristics of the power supply used.

MECHANICAL DIMENSIONS



DALI MAP ADDRESSES

"AUTOMATIC" FIXTURE CONFIGURATION:

The "AUTOMATIC" Fixtures automatically direct the UNADDRESSED devices connected to the DALI BUS.

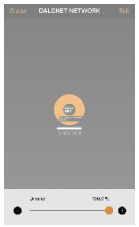
DALI2 BROADCAST

Casambi Slider
Dimmer

Address	Command
BROADCAST	Dimmer ALL

0/1-10V AUTOMATIC

Casambi Slider
Dimmer



Address	Command
1 Channel	0/1-10V

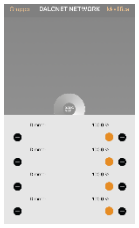
W AUTOMATIC

Casambi Slider
Dimmer

Address	Command
A0	Dimmer 0

WWWW AUTOMATIC

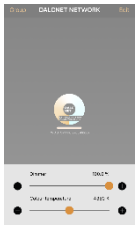
Casambi Slider
Dimmer 0
Dimmer 1
Dimmer 2
Dimmer 3



Address	Command
A0	Dimmer 0
A1	Dimmer 1
A2	Dimmer 2
A3	Dimmer 3

TW AUTOMATIC 2700 - 6000K

Casambi Slider
Dimmer
Color temperature



Address	Command
A0	Warm white
A1	Cold white

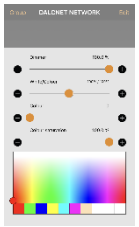
RGB AUTOMATIC

Casambi Slider
Dimmer
Color
Saturation
Map

Address	Command
A0	R – Red
A1	G – Green
A2	B – Blue

RGB+W AUTOMATIC

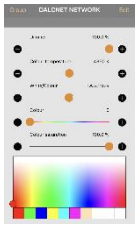
Casambi Slider
Dimmer
White / Color
Color
Saturation
Map



Address	Command
A0	R – Red
A1	G – Green
A2	B – Blue
A3	W – White

RGB+TW AUTOMATIC

Casambi Slider
Dimmer
Color temperature
White / Color
Color
Saturation
Map



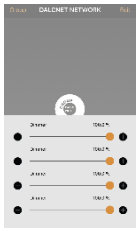
Address	Command
A0	R – Red
A1	G – Green
A2	B – Blue
A3	WW – Warm White
A4	CW – Cool White

FIXTURE "GROUP" CONFIGURATION:

With Fixture "Group" send group commands. To be correctly controlled by these Fixtures, the SLAVE devices must first be addressed and assigned to the desired group via a DALI Master.

WWWW GROUP

Casambi Slider
Group 0
Group 1
Group 2
Group 3



Address	Command
G0	Group 0
G1	Group 1
G2	Group 2
G3	Group 3

TW GROUP 2700 - 6000

Casambi Slider
Dimmer
Color temperature

Address	Command
G0	Warm White group
G1	Cool White Group

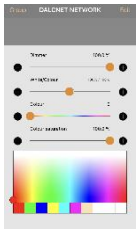
RGB GROUP

Casambi Slider
Dimmer
Color
Saturation
Map

Address	Command
G0	Red group
G1	Green Group
G2	Blue Group

RGB+W GROUP

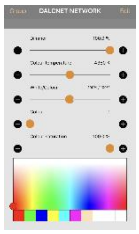
Casambi Slider
Dimmer
White / Color
Color
Saturation
Map



Address	Command
G0	Red group
G1	Green Group
G2	Blue Group
G3	White Group

RGB+TW GROUP

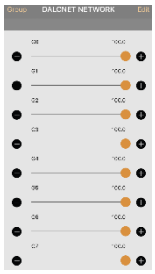
Casambi Slider
Dimmer
Color temperature
White / Color
Color
Saturation
Map



Address	Command
G0	Red group
G1	Green Group
G2	Blue Group
G3	Warm White group
G4	Cool White Group

8W GROUP

Casambi Slider
Group 0
Group 1
Group 2
Group 3
Group 4
Group 5
Group 6
Group 7



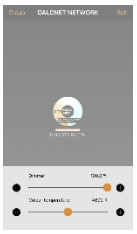
Address	Command
G0	Group 0
G1	Group 1
G2	Group 2
G3	Group 3
G4	Group 4
G5	Group 5
G6	Group 6
G7	Group 7

FIXTURE CONFIGURATION "DT8 BC":

The "DT8 BC" fixture send broadcast commands to device compliant with IEC 62386-209 – "Device Type 8".

DALI DT8 BC TW 2700 - 6000K

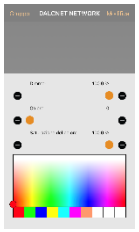
Casambi Slider
Dimmer
Color temperature



Address	Command
Broadcast	DT8 Dimming + CCT

DALI DT8 BC RGB

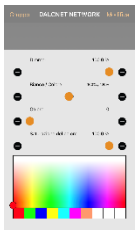
Casambi Slider
Dimmer
Color
Saturation
Map



Address	Command
Broadcast	DT8 Dimming + RGB

DALI DT8 BC RGB+W

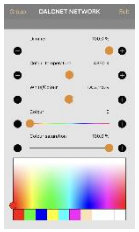
Casambi Slider
Dimmer
White / Color
Color
Saturation
Map



Address	Command
Broadcast	DT8 Dimming + RGBW

DALI DT8 BC RGB+TW

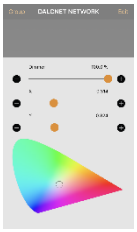
Casambi Slider
Dimmer
Color temperature
White / Color
Color
Saturation
Map



Address	Command
Broadcast	DT8 Dimming + RGBTW

DALI DT8 XY

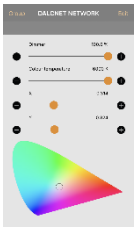
Casambi Slider
Dimmer
X
Y



Address	Command
Broadcast	DT8 Dimming XY

DALI DT8 XY+TW

Casambi Slider
Dimmer
Color temperature
X
Y



Address	Command
Broadcast	DT8 Dimming XY+TW

TECHNICAL NOTES

INSTALLATION

- Isolate the mains supply before installing the product.
- Installation and maintenance must be performed in the absence of voltage.
- Installation and maintenance must only be performed by qualified personnel in compliance with current regulations.
- The product must be installed inside an electrical panel protected against overvoltage.
- The product must be protected by a suitably sized fuse and/or circuit breaker.
- The product must be installed in a vertical or horizontal position with the faceplate/label facing up or vertically; no other positions are allowed. The bottom-up position (with front panel/label down) is not allowed.
- Use in thermally harsh environments may limit the output power.
- Keep 230V (LV) circuits and non-SELV circuits separate from safety extra-low voltage (SELV) circuits and all connections to this product. It is absolutely forbidden to connect for any reason, directly or indirectly, the 230V mains voltage to the bus or to other parts of the SELV circuit.

COMMAND AND OUTPUT

- The length of the connection cables between the local controls (N.O. Push Button, 0-10V, 1-10V or other) and the product must be less than 10m. The cables must be sized correctly and must be isolated from any wiring or non-SELV live parts. It is recommended to use double insulated cables, if deemed appropriate also shielded.
- All devices and control signals connected to the local "N.O. Push Button or other" with the symbol, must not supply any type of voltage.
- The length and type of bus connection cables (DALI or other) must comply with what is defined by the specifications of the respective protocols and current regulations. They must be isolated from any wiring or non-SELV voltage parts. It is recommended to use double insulated cables
- All devices and control signals connected to the buses (DALI or other) and to local commands (0-10V, 1-10V or other) must be of the SELV type (the connected devices must be SELV or in any case provide a SELV signal).

FOR CASAMBI/BLE PRODUCTS:

- ATTENTION: in order not to compromise and jeopardize the correct functioning of the device, the device must not be shielded in any way and/or installed inside metal or aluminium boxes or near metal structures. Like any other Casambi product, it should not be placed in a metal container or next to large metal structures. The metal will effectively block all radio signals which are critical to the product's operation.

WARNINGS

- To guarantee the best performance and the most recent functions made available by Casambi, make sure you have installed the latest version of the Casambi APP on your device.
- If the Casambi APP requires it, upgrade the FW version of the installed device. This guarantees the latest features and innovations available.
- To guarantee the best performance and correct functioning to the end user, a functional test is carried out on 100% of the devices. If the device has remained associated with the Dalcnet test network, please uncouple the device by following the information given in the Casambi APP and in the paragraph "UNPAIRING THE DEVICE FROM THE CASAMBI NETWORK".