



DALC NET Line 4cc Casambi User Manual

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Specifications

- **Product Code:** LINE-4CC-CASAMBI
- **Supply Voltage:** 12-24-48 VDC
- **Protections:** OVP, UVP, RVP, IFP
- **Reference Standards:** EN 55015, EN 61547, EN 61347-1, EN 61347-2-13

Product Description

The LINE-4CC-CASAMBI enables users to make simple brightness adjustments and intricate lighting control systems. Features include multiple scenarios, animations, timers, daylight controls, and more. The CASAMBI APP is available for download on both the Apple App Store and Google Play Store.

Types of Profiles

The product offers various profiles for different applications including LINE 4xDIM, LINE TWxTW, LINE RGB, and LINE RGB+W with corresponding descriptions and profile numbers.

Technical Specifications

- **Supply Voltage:** 12 / 24 / 48 Vdc
- **Supply Current:** Max 3.2A
- **Output Current:** 4x max 900mA
- **Nominal Power:** Varies based on voltage and channel
- **Dimming Curves:** Available
- **Dimming Range:** Varies based on model
- **PWM Frequency:** Available
- **Storage Temperature:** Consult manual for range
- **IP Protection Grade:** Consult manual for specific grade

- **Casing Material:** Not specified

Product Usage Instructions

Installation

1. Ensure the power supply matches the specified voltage range (12-24-48 VDC).
2. Connect the device according to the wiring diagram provided in the manual.
3. Securely fasten all connections to prevent any loose wiring.

Setting Up Profiles

1. Download and install the CASAMBI APP from the respective app stores.
2. Create profiles based on your desired lighting scenarios and configurations.
3. Select the appropriate profile for your specific application.

Operating the Device

1. Use the CASAMBI APP to control brightness adjustments, set timers, and configure animations.
2. Refer to the user manual for detailed instructions on utilizing different features of the device.

FAQ

- **Where can I download the CASAMBI APP?**

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

- **How can I ensure proper functioning of the CASAMBI APP?**

For correct functioning, consult the forum on the Casambi website: <https://support.casambi.com/support/home>

FEATURES

- DIMMER LED CASAMBI
- DimmerLed with constant current outputs for dimmable LEDs
- Power Supply: 12-24-48 Vdc
- Output current for common anode led modules
- WHITE, MONOCOLOR, DYNAMIC WHITE, RGB and RGB+W Light Control Command: CASAMBI APP
- Local Command: N°2 Push Button Normally Open
- Current output for R-L-C Loads
- Adjustable output current between 150-900mA via CASAMBI APP Minimum brightness level: down to 1%
- PWM Modulation
- PWM Frequency 3400Hz
- Linear curve
- Soft start and soft stop
- Soft dimming of brightness
- Extended temperature range
- 100% Functional Test

PRODUCT DESCRIPTION

- The LINE-4CC-CASAMBI is a 4-channel output dimmer LED, controllable via Bluetooth thanks to the Casambi APP or locally through two normally open buttons.
- The dimmer LED is suitable for driving loads such as Spot-Light and LED modules, White, monochromatic colour, Dynamic White, RGB and RGB+W at constant current. You can connect a power supply at 12-24-48 Vdc.
- The maximum value of the output current is from 150mA and 900mA.
- The dimmer LED has the following protections: over-power protection, under-power protection, reverse polarity protection and input fuse protection.
- The LINE-4CC-CASAMBI enables you to make not only simple brightness adjustments but also more intricate lighting control systems. This is made possible through the creation of multiple scenarios, animations, timers, daylight controls, and more.
- The CASAMBI APP can be downloaded for free 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	SUPPLY VOLTAGE	LED OUTPUT	N° OF CHANNELS	TYPE OF COMMAND
LINE-4CC-CASAMBI	12-24-48 VDC	4 x 350 ÷ 900 ¹ mA	4	APP CASAMBI N°2 N.O. Push Button

PROTECTIONS

OVP	Over voltage protection ²	✓
UVP	Under voltage protection ²	✓
RVP	Reverse polarity protection ²	✓
IFP	Input fuse protection ²	✓

REFERENCE STANDARDS

EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61547	Equipment for general lighting purposes – EMC immunity requirement
EN 61347-1	Lamp Control gear – Part 1: General and safety requirement
EN 61347-2-13	Lamp Control gear – Part 2-13: Particular requirement for d.c. or a.c. supplied electronic Control gear for LED modules

TYPES OF PROFILES

NAME OF PROFILE	#PROFILE	DESCRIPTION
LINE 4xDIM 150-350mA	22990	N°4 LED output channels, four slides to dim the outputs. PWM frequency = 3400Hz. Linear dimming curve. PWM resolution 1176step. Current range adjustable by APP: 150-350mA.
LINE 4xDIM 400-500mA	22988	N°4 LED output channels, four slides to dim the outputs. PWM frequency = 3400Hz. Linear dimming curve. PWM resolution 1176step. Current range adjustable by APP: 400-500mA.
LINE 4xDIM 550-700mA	29791	N°4 LED output channels, four slides to dim the outputs. PWM frequency = 3400Hz. Linear dimming curve. PWM resolution 1176step. Current range adjustable by APP: 550-700mA.
LINE 4xDIM 750-900mA	25655	N°4 LED output channels, four slides to dim the outputs. PWM frequency = 3400Hz. Linear dimming curve. PWM resolution 1176step. Current range adjustable by APP: 750-900mA.

LINE TWxTW 150-350mA	30786	<p>N°2+2 LED output channels, two slides to dim the outputs and two slides to vary the Colour Temperature.</p> <p>PWM frequency = 3400Hz. Linear dimming curve.</p> <p>PWM resolution 1176step.</p> <p>Current range adjustable by APP: 150-350mA.</p>
LINE TWxTW 400-500mA	30787	<p>N°2+2 LED output channels, two slides to dim the outputs and two slides to vary the Colour Temperature</p> <p>PWM frequency = 3400Hz. Linear dimming curve.</p> <p>PWM resolution 1176step.</p> <p>Current range adjustable by APP: 400-500mA.</p>
LINE TWxTW 550-700mA	30788	<p>N°2+2 LED output channels, two slides to dim the outputs and two slides to vary the Colour Temperature.</p> <p>PWM frequency = 3400Hz. Linear dimming curve.</p> <p>PWM resolution 1176step.</p> <p>Current range adjustable by APP: 550-700mA.</p>
LINE TWxTW 750-900mA	30789	<p>N°2+2 LED output channels, two slides to dim the outputs and two slides to vary the Colour Temperature.</p> <p>PWM frequency = 3400Hz. Linear dimming curve.</p> <p>PWM resolution 1176step.</p> <p>Current range adjustable by APP: 750-900mA.</p>

LINE RGB 150-350mA	30790	N°3 Output channels for RGB LEDs. PWM frequency = 3400Hz. Linear dimming curve. PWM resolution 1176step. Current range adjustable by APP: 150-350mA.
LINE RGB 400-500mA	30791	N°3 Output channels for RGB LEDs. PWM frequency = 3400Hz. Linear dimming curve. PWM resolution 1176step. Current range adjustable by APP: 400-500mA.
LINE RGB 550-700mA	30792	N°3 Output channels for RGB LEDs. PWM frequency = 3400Hz. Linear dimming curve. PWM resolution 1176step. Current range adjustable by APP: 550-700mA.
LINE RGB 750-900mA	30793	N°3 Output channels for RGB LEDs. PWM frequency = 3400Hz. Linear dimming curve. PWM resolution 1176step. Current range adjustable by APP: 750-900mA.
LINE RGB+W 150-350mA	30794 Default	N°3+1 Output channels for LEDs. RGB and White can be dimmed separately. PWM frequency = 3400Hz. Linear dimming curve. PWM resolution 1176step. Current range adjustable by APP: 150-350mA.
LINE RGB+W 400-500mA	30795	N°3+1 Output channels for LEDs. RGB and White can be dimmed separately. PWM frequency = 3400Hz. Linear dimming curve. PWM resolution 1176step. Current range adjustable by APP: 400-500mA.
LINE RGB+W 550-700mA	30796	N°3+1 Output channels for LEDs. RGB and White can be dimmed separately. PWM frequency = 3400Hz. Linear dimming curve. PWM resolution 1176step. Current range adjustable by APP: 550-700mA.
LINE RGB+W 750-900mA	30797	N°3+1 Output channels for LEDs. RGB and White can be dimmed separately. PWM frequency = 3400Hz. Linear dimming curve. PWM resolution 1176step. Current range adjustable by APP: 750-900mA.

TECHNICAL SPECIFICATIONS

	LINE 4CC CASAMBI
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Supply voltage		12 / 24 / 48 Vdc							
DC voltage range		DC Min: 12 ÷ 48 Vdc ± 10%							
Supply current		Max 3,2A							
Output voltage		Min: Vin/4 – Max: Vin-0,9V (max Vf=43V)							
Output current3		4x max 900mA							
Nomin al power for c hannel 3	Current [mA] ± 5%	150	200	250	300	350	400	450	500
	@12 Vdc	1,8W	2,4W	3W	3,6W	4,2W	4,8W	5,4W	6W
	@24 Vdc	3,6W	4,8W	6W	7,2W	8,4W	9,6W	10,8 W	12W
	@48 Vdc	6,45 W	8,6 W	10,75 W	12,9 W	15,05 W	17,2 W	19,35 W	21,5 W
	Current [mA] ± 5%	550	600	650	700	750	800	850	900
	@12 Vdc	6,6W	7,2W	7,8W	8,4W	9W	9,6W	10,2 W	10,8 W
	@24 Vdc	13,2 W	14,4 W	15,6 W	16,8 W	18W	19,2 W	20,4 W	21,6 W
	@48 Vdc	23,65 W	25,8 W	27,95 W	30,1 W	32,25 W	34,4 W	36,55 W	38,7 W
Nomin al power total 3	Current [mA] ± 5%	150	200	250	300	350	400	450	500
	@12 Vdc	7,2W	9,6W	12W	14,4 W	16,8 W	19,2 W	21,6 W	24W
	@24 Vdc	14,4 W	19,2 W	24W	28,8 W	33,6 W	38,4 W	43,2 W	48W
	@48 Vdc	25,8 W	34,4 W	43 W	51,6 W	60,2 W	68,8 W	77,4 W	86 W
	Current [mA] ± 5%	550	600	650	700	750	800	850	900
	@12 Vdc	26,4 W	28,8 W	31,2 W	33,6 W	36W	38,4 W	40,8 W	43,2 W
	@24 Vdc	52,8 W	57,6 W	62,4 W	67,2 W	72W	76,8 W	81,6 W	86,4 W
	@48 Vdc	94,6 W	137,6 W	111,8 W	120,4 W	129 W	137,6 W	146,2 W	154,8 W
Power loss in standby mode		< 0,5 W							
Type of load		R-L-C							
Dimming curves		Linear							

Dimming range4		1 – 100%			
Minimum dimming level		1%			
Dimming method		Pulse Width Modulation “PWM”			
PWM Frequency4		3400 Hz			
PWM Resolution4		1176 Step			
Operating Frequencies4		2402 – 2483 MHz			
Maximum output power4		7dBm			
Storage temperature		Min: -40°C – Max: 60°C			
Ambient temperature, Ta range3		Min: -10°C – Max: 60°C			
		Min: -10°C – Max: 45°C (only for current from 750 to 900mA)			
Type of connector		Push-In terminals			
Wiring section	Solid Size	0.2 ÷ 1.5mm2	/ 24 ÷ 16 AWG		
	Stranded Size				
Wire strip length		9 ÷ 10 mm			
IP protection grade		IP20			
Casing material		Plastic			
Packaging units (pieces/units)		1pcs			
Mechanical dimensions		186 x 29 x 21 mm			
Packaging dimensions		197 x 34 x 29 mm			
Weight		77g			

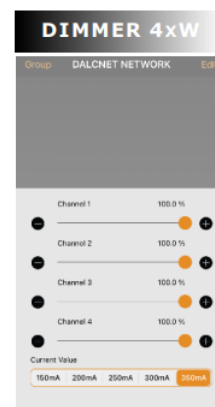
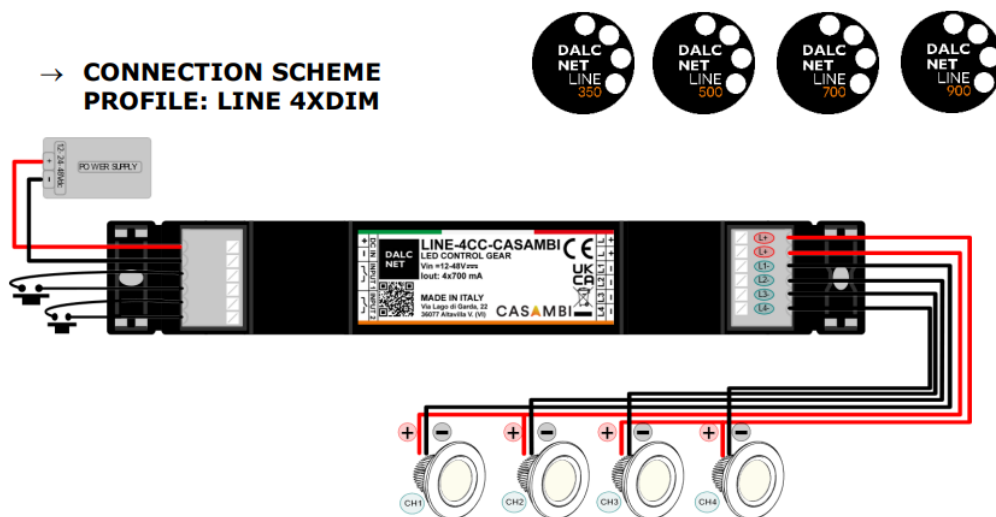
WIRING DIAGRAMS

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

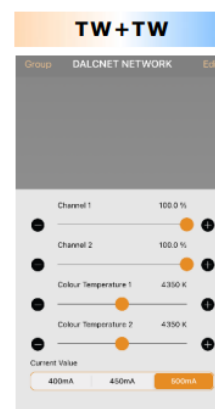
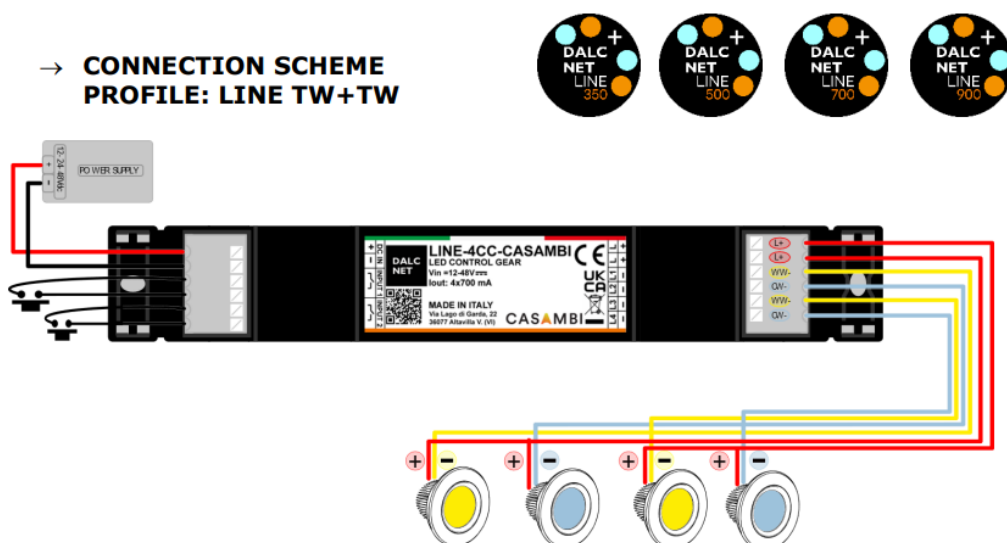
- Connect the positive of the LED load to the “L” terminal with the “+” symbol, instead the negatives of the LED load to the terminals “L1”, “L2”, “L3” and “L4” with the “-” symbol.
- Connect the N.O. push button to the “INPUT 1” and “INPUT 2” terminals with the “ ” Be sure not to connect live parts to “INPUT” terminals.
- Connect a 12-24-48 Vdc constant voltage SELV power supply (properly sized power, depending on the technical characteristics of LED load) to the DC IN terminal block with the “+” and “-” symbols.
- Be sure not to use constant current LED Driver and check that the polarity of the cables is correct.

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.

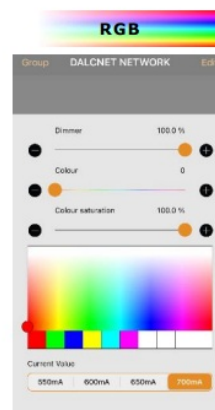
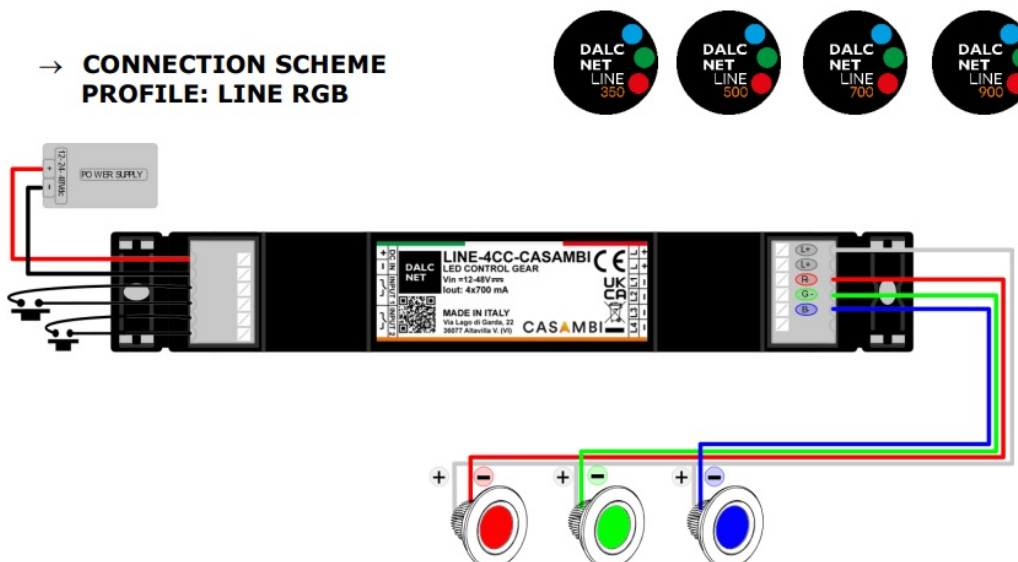
→ **CONNECTION SCHEME
PROFILE: LINE 4XDIM**



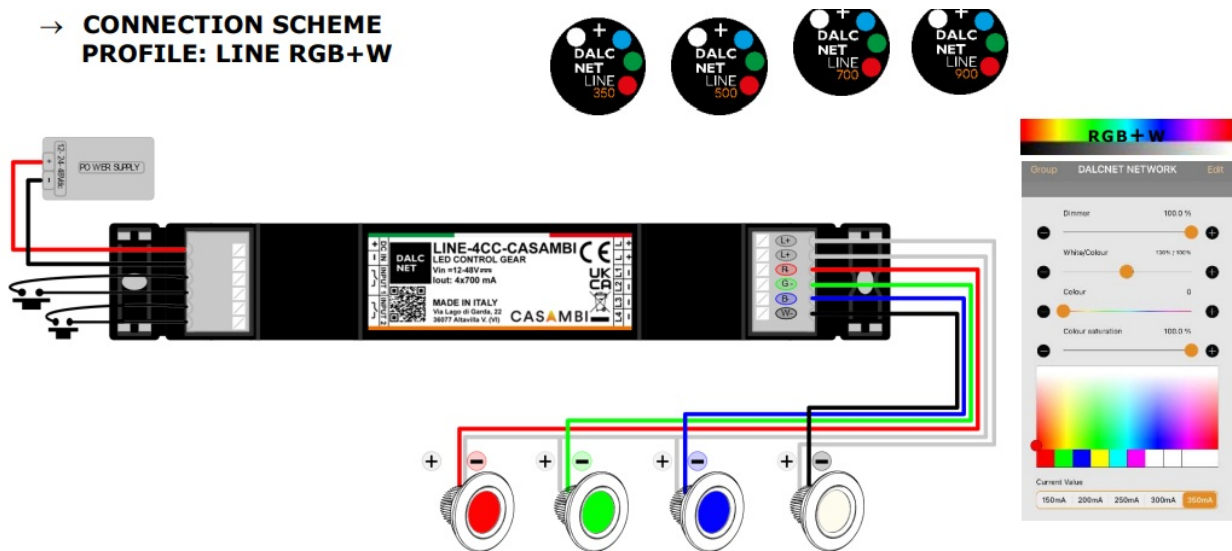
→ **CONNECTION SCHEME
PROFILE: LINE TW+TW**



→ **CONNECTION SCHEME
PROFILE: LINE RGB**



→ CONNECTION SCHEME PROFILE: LINE RGB+W



OBSERVATION:

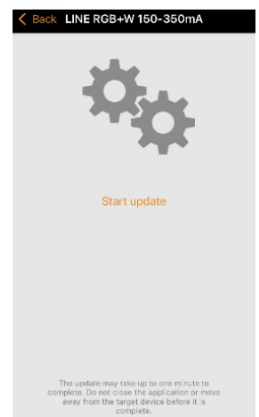
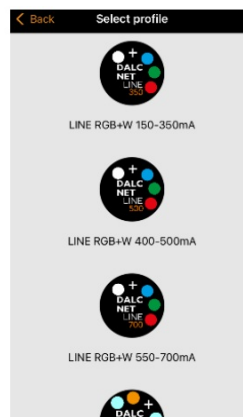
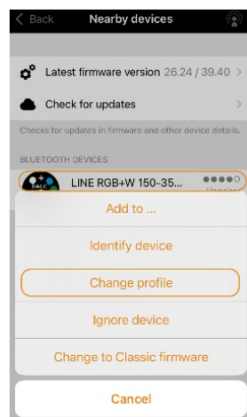
Depending on the type and size of the LED modules, it is possible to divide the LED load power supply on the 2 “L+” output terminals.

CURRENT OUTPUT CONFIGURATION

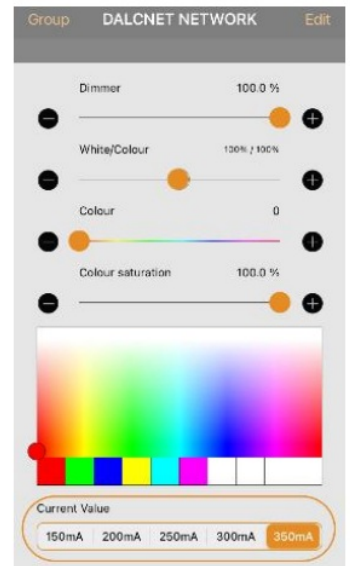
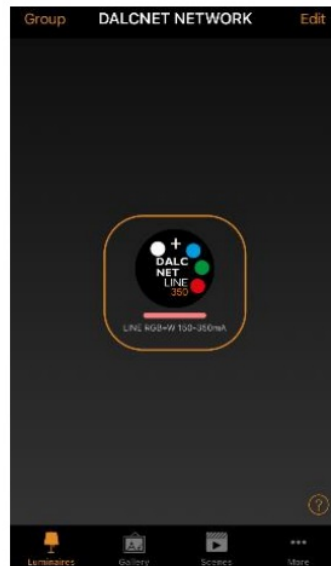
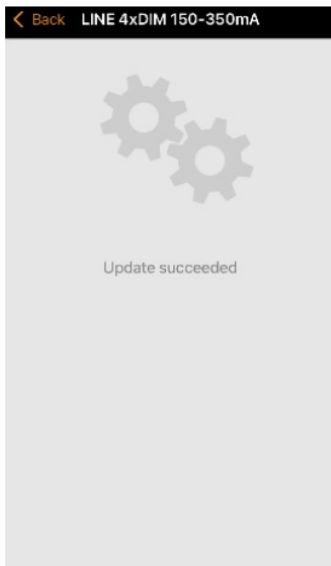
The LINE 4CC CASAMBI allows to set the maximum current of its 4 output channels, via CASAMBI APP. As it is possible to see from the following graphs, once established which type of load it wants to connect to the product, whether: White, Dynamic White, RGB or RGB+W. It is possible to load the desired Fixture with the most appropriate current range for the technical characteristics of the load and set the maximum current that can be supplied by the device according to how the system has been configured.

SETTINGS OF FIXTURE

1. Power on the device and open the CASAMBI APP.
2. Select the “Nearby Device”.
3. Tap on the icon of the device, and tap on “Change profile”.
4. Select the desired profile.
5. Click “Start update”.



6. Wait for the profile to load correctly.
7. Once it has inserted the device inside the Casambi Network, click two times on the product icon.
8. Inside of the device configuration, a function bar will appear where it can set the desired current.



CURRENT CONFIGURATION BY CASAMBI APP

Example: RANGE 150-350 [mA]

- Maximum current that can be supplied by the device for each single output: 350mA



- Maximum current that can be supplied by the device for each single output: 300mA



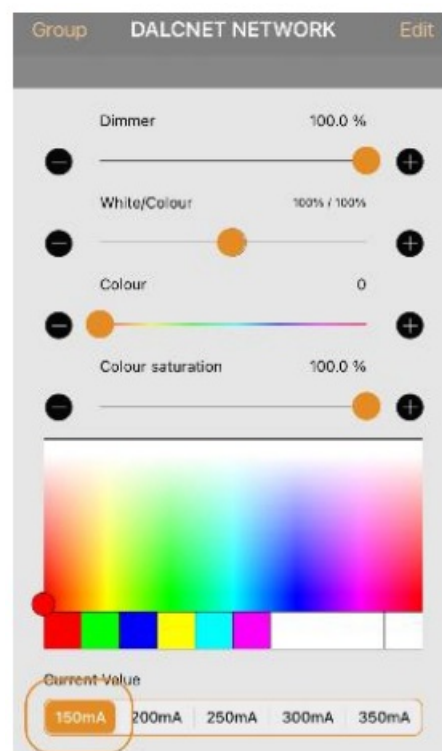
- Maximum current that can be supplied by the device for each single output: 250mA



- Maximum current that can be supplied by the device for each single output: 200mA



- Maximum current that can be supplied by the device for each single output: 150mA



There are 3 range of current configuration:

- RANGE 150-350 [mA] → Settable currents 150 – 200 – 250 – 300 – 350 [mA]
- RANGE 400-500 [mA] → Settable currents 400 – 450 – 500 [mA]
- RANGE 550-700 [mA] → Settable currents 550 – 600 – 650 – 700 [mA]
- RANGE 750-900 [mA] → Settable currents 750 – 800 – 850 – 900 [mA]

LOCAL COMMANDS FUNCTIONALITY

N.O. PUSH BUTTON5

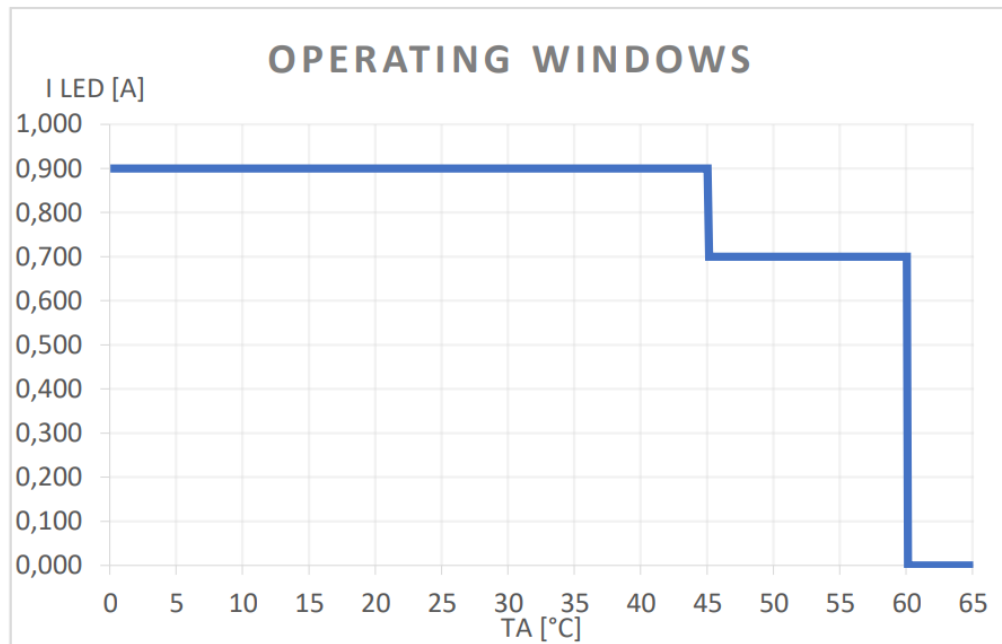
N° Button	Function		
1-2	Controls a luminaire	Click Long pressure (>1s)	Tap to turn a luminaire on or off – hold to adjust luminaire brightness
	Controls an element	Click Long pressure (>1s)	Tap to turn a device element on or off – hold to adjust the element value
	Control a group	Click Long pressure (>1s)	Tap to turn a group on or off – hold to adjust brightness
	Control scene	Click Long pressure (>1s)	Tap to turn a scene on or off – hold to adjust scene brightness
	Control all luminaires	Click Long pressure (>1s)	Tap to turn all luminaires on or off – hold to adjust brightness
	Cycles scenes	Click Long pressure (>1s)	Tap to cycle through the list of scenes – hold to adjust current scene brightness
	Active/Standby	Click Long pressure (>1s)	Tap to switch between two scenes – hold to adjust current scene brightness
For all other functions consult the documentation of the CASAMBI APP 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 you have selected the unpair function and started the procedure, turn off the main power of the power supply connected to the LINE-4CC-CASAMBI and turn it on again after 1 – 2 seconds.
- If the main power supply is switched off and on again quickly, unpair may not be done properly. Repeat the unpair sequence by allowing 1 or 2 more seconds to elapse between the moment you turn off and re-turn on the main power of the power 6.
- A second method to unpair the product is to connect an N.O. push button to an "INPUT" terminal of the LINE-4CC-CASAMBI and during the decoupling procedure press the button.

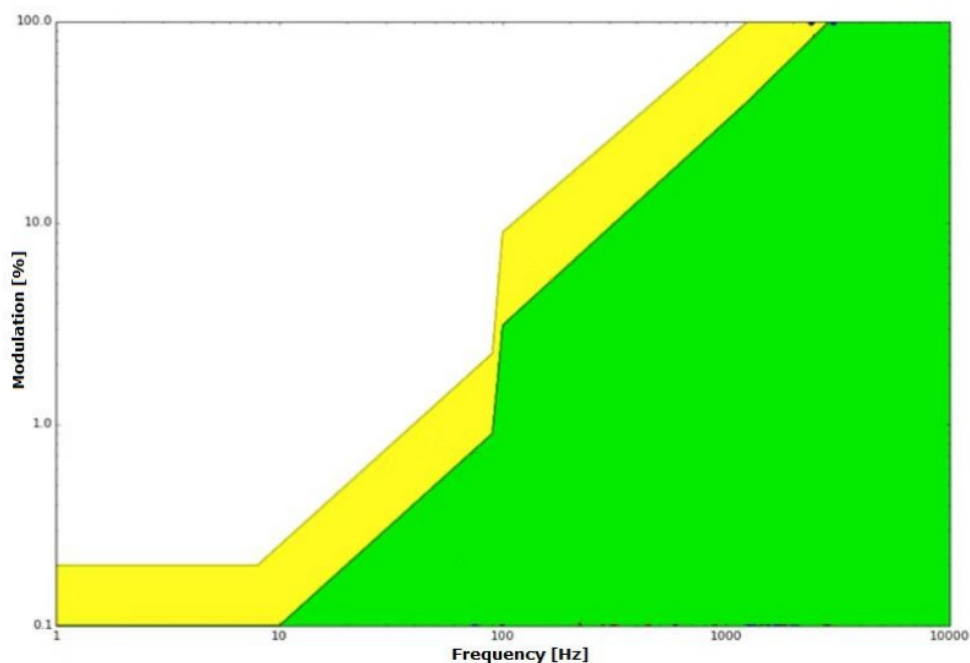
OPERATING WINDOW

- Ambient temperature [Ta]:
 - provides a current up to 700mA, with a working temperature range of $-10^{\circ}\text{C} \div +60^{\circ}\text{C}$.
 - provides a current up to 900mA, with a working temperature range of $-10^{\circ}\text{C} \div +45^{\circ}\text{C}$.
- These maximum current values can be applied only under proper ventilation conditions.

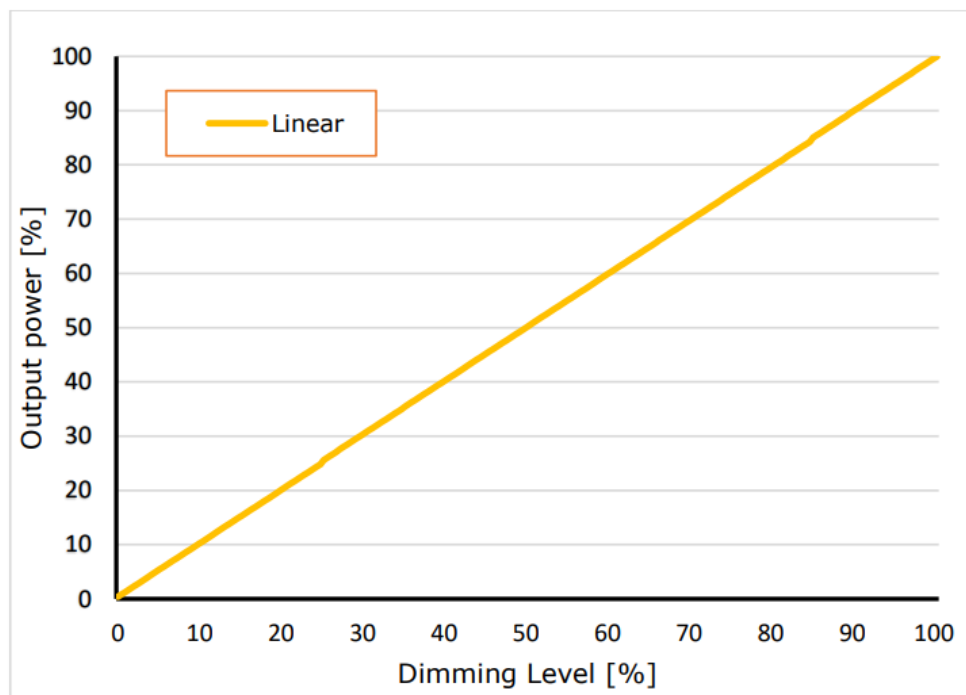


FLICKER PERFORMANCE

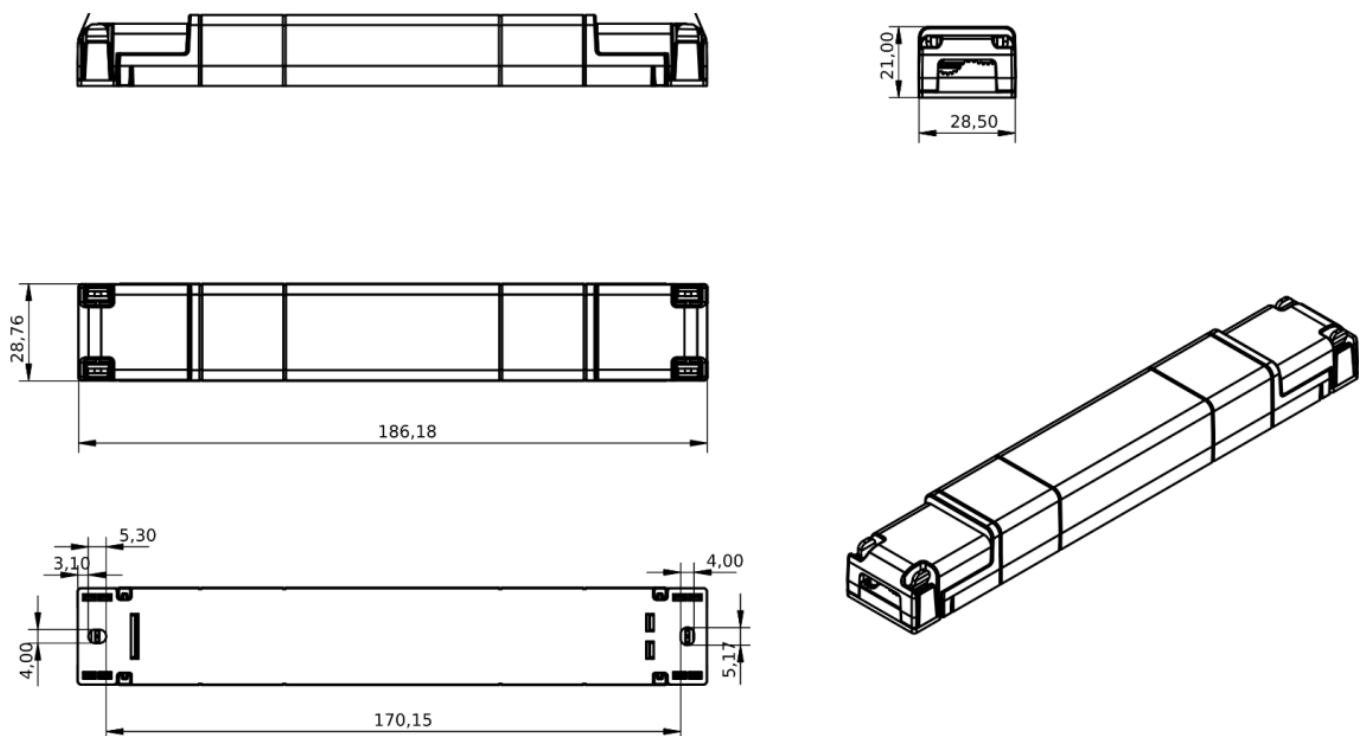
- Thanks to its 3,4kHz dimming frequency, the LINE-4CC-CASAMBI effectively reduces the occurrence of the Flicker phenomenon. Depending on an individual's sensitivity and the nature of their activities, flickering can impact one's well-being, even if the changes in luminance are beyond the threshold detectable by the human eye.
- The graph shows the phenomenon of Flickering in function at the frequency, measured throughout the dimming range.
- The results show the low-risk zone (yellow) and the no-effect zone (green). Defined by IEEE 1789-20157



DIMMING CURVE



MECHANICAL DIMENSIONS



TECHNICAL NOTE

INSTALLATION

- **CAUTION:** The product may only be connected and installed by a qualified electrician. All applicable regulations, legislation, and building codes must be observed. Incorrect installation of the product can cause irreparable damage to the product and the connected LEDs.
- Maintenance must be performed only by a qualified electrician in compliance with current regulations. Pay

attention when connecting the LEDs: polarity reversal results in no light output and often damages the LEDs.

- The product is designed and intended to operate LED loads only. Powering non-LED loads may push the product outside its specified design limits and is, therefore, not covered by any warranty. Operating conditions of the product may never exceed the specifications as per the product datasheet.
- The product must be installed inside a switchgear/controlgear cabinet and/or junction box protection against overvoltage.
- The product must be installed in a vertical or horizontal position with the label/top cover facing upwards or vertically. Other positions are not permitted. The bottom position is not permitted (label/top cover facing down).
- Keep separated 230Vac (LV) circuits and not SELV circuit from safety extra low voltage (SELV) circuit and from any connection with this product. It is absolutely forbidden to connect, for any reason whatsoever, directly or indirectly, the 230Vac mains voltage to the product (terminal block of BUS included).
- The product must be dissipated correctly.
- The use of the product in harsh environments could limit the output power.
- For built-in components inside luminaires, the ta ambient temperature range is a guideline given for the optimum operating environment. However, integrator must always ensure proper thermal management (i.e. correct mounting of the device, air flow etc.) so that the tc point temperature does not exceed the tc maximum limit in any circumstance. Reliable operation and lifetime is only guaranteed if the maximum tc point temperature is not exceeded under the conditions of use.

POWER SUPPLY

- Only use SELV power supplies with limited current for device power supply, short circuit protection and the power must be dimensioned correctly.
In the case of power supplies equipped with ground terminals, it is mandatory to connect ALL protective ground points (PE= Protection Earth) to a properly and certified protection earth.
- The connection cables between the very low voltage power source and the product must be properly dimensioned and must be insulated from any wiring or part at non-SELV voltage. Use double insulated cables.
- Dimension the power of the power supply in relation to the load connected to the device. In case the power supply is oversized compared to the maximum absorbed current, insert a protection against over-current between the power supply and the device.
- For the constant current output, the voltage of LED module (VF) must be less than the supply voltage of at least 5V.

COMMAND

- The length of the cables connecting between the local commands (N.O. Push button or other) and the product must be less than 10m. The cables must be properly dimensioned and must be insulated from any non-SELV wiring or voltage. It is recommended to use double insulated cables, if deemed appropriate also shielded.
- ALL device and control signal connected to the local command “N.O. Push button” with symbol, they must not supply any type of voltage.

OUTPUTS

It is recommended a length of the connecting cables between the product and the LED module less than 10m. The cables must be properly dimensioned and must be insulated from any wiring or circuits at voltage not SELV. It is recommended to use double insulated cables. In case you want to use connecting cables between the product

and the LED module greater than 10m, the installer must guarantee the correct operation of the system. In any case, the connection between the product and the LED module must not exceed 30m.




ONLY CASAMBI/BLUETOOTH PRODUCT

WARNING: For optimal functionality of the Casambi signal, do not put the device into metal or aluminium boxes and do not shield the device. As any other Casambi product, should not be placed in a metal enclosure or next to large metal structures. Metal will effectively block all radio signals which are crucial to the operation of the product.

WARNINGS


- To guarantee the best performances and the full use of functions, make sure to download on your device the last release of CASAMBI APP.
- Whenever CASAMBI APP requires an upgrade of the profile installed in the LED Dimmers, follow the instruction to do it. This allows you to stay always up to date and benefit of new functions released.
- Functionality test are done on all dimmers to ensure the right working. In case the device is still paired to “Dalcnet network”, you are asked to unpair it by following the instructions on CASAMBI APP and in paragraph “UNPAIR DEVICE FROM THE CASAMBI NETWORK”.

SYMBOLOGIES

	All products are manufactured in compliance with European Directives, as reported in the EU Conformity Declaration.
	Independent lamp Controlgear: lamp controlgear consisting of one or more separate elements so designed that it can be mounted separately outside a luminaire, with protection according to the marking of the lamp controlgear and without any additional enclosure
SELV	“Safety Extra Low Voltage” in a circuit which is isolated from the mains supply by insulation not less than that between the primary and secondary circuits of a safety isolating transformer according to IEC 61558-2-6.
	At the end of its useful life the product described in this datasheet is classified as waste from electronic equipment, and cannot be disposed together with the municipal undifferentiated solid waste. Warning! Incorrect disposal of this product may cause serious damage to the environment and human health. Please be informed about the correct disposal procedures for waste collecting and processing provided by local authorities.

ABOUT COMPANY

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LINE 4cc CASAMBI	
DALC NET	
CASAMBI	
FEATURES	
• 4x DIM 150-350mA, 4x DIM 400-500mA, 4x DIM 550-700mA, 4x DIM 750-900mA, 4x TWxTW 150-350mA, 4x TWxTW 400-500mA, 4x TWxTW 550-700mA, 4x TWxTW 750-900mA	
PRODUCT DESCRIPTION	
The DALC NET Line 4cc Casambi is a professional lighting system designed for high-end commercial and residential applications. It features a compact, sleek design and is compatible with a wide range of lighting fixtures. The system is controlled via a mobile app, allowing for easy adjustment of light levels and colors. It is also compatible with Casambi's ecosystem, enabling seamless integration with other smart lighting products. The system is designed for long-term use and is backed by a 5-year warranty.	

DALC NET Line 4cc Casambi [pdf] User Manual

LINE 4xDIM 150-350mA, LINE 4xDIM 400-500mA, LINE 4xDIM 550-700mA, LINE 4xDIM 750-900mA, LINE TWxTW 150-350mA, LINE TWxTW 400-500mA, LINE TWxTW 550-700mA, LINE TWxTW 750-900mA

References

-  [Led dimmer and RGB controller for professional lighting systems](#)
-  [Led dimmer and RGB controller for professional lighting systems](#)
-  [Support : Casambi Support](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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