CBU-MASTER-DALI-ZG

User Manual

Made in Italy

FEATURES

- CASAMBI© ⟶ DALI PASSIVE CONTROLLER
- Signal converter from CASAMBI© to DALI in ZHAGA book 18 format
- Power Supply (DA): from DALI bus
- Remote control: via Bluetooth Low Energy (BLE5.0), compatible with CASAMBI© Long Range type networks
- DALI Addressing functionality
- Controls up to 64 DALI LED drivers
- Controls up to 8 DALI Short Addresses and up to 8 DALI Groups
- Built-in Light Sensor
- Supports external DALI-2 motion and Light sensors
- Configuration and control via CASAMBI© mobile application
- Extended Temperature Range
- 100% Functional Test - 5 years warranty

PRODUCT DESCRIPTION

CBU-MASTER-DALI-ZG is a CASAMBI© Bluetooth Unit (CBU) DALI bus powered controller (external DALI bus Power Supply required) from CASAMBI© to DALI (Digital Addressable Lighting Interface). The CBU receives a command from CASAMBI© mobile app (via BLE) or via Mesh network and converts it into a DALI command signal. Configuration and control profiles can be managed via CASAMBI© mobile app (refer to §*Profiles Overview: Fixtures*). CBU-MASTER-DALI-ZG features a light sensor which can be configured via CASAMBI© mobile app to set specific illuminance levels for energy saving or used in daylight controlled basic scenes for switching the lights on/off. Internal temperature can be monitored via mobile app. Range between controllers in outdoors with direct line of sight and without obstacles, is up to 70m in Balanced BLE4.0 type nets and can be over 200m in BLE5.0 Long range type nets.
The device is enclosed by a UV-resistant IP66 enclosure while electrical connection and mechanical fixing are possible via a standard ZHAGA Book 18 plug-and-play compatible socket, without tools.

Through the CASAMBI© mobile application and smartphones/tablets equipped with Bluetooth technology, it is possible to configure multiple values. CASAMBI© mobile application can be downloaded free of charge from the Apple APP Store and Google Play Store.

⇢ For the most up-to-date manual, please visit our website www.dalcnet.com or scan the QR code on product label.
⇢ For the correct functioning of the CASAMBI© mobile app, please visit the forum on the Casambi website: https://support.casambi.com/support/home

PRODUCT CODE

CODE	POWER SUPPLY	REMOTE CONTROL	OUTPUT	CONFIGURATION
CBU-MASTER-DALI-ZG	From DALI bus	CASAMBI© Mobile app (BLE)	DALI (DT6 or DT8)[1]	CASAMBI© Mobile app

Table 1: Product code

PROTECTION AND DETECTION

ACRONYM	DESCRIPTION	TERMINAL	PRESENT
OTP	Over Temperature Protection	Enclosure	✓

Table 1: Detection and Protection features

REFERENCE STANDARDS

STANDARD	TITLE
EN 55015:2013 +A1:2015	Limits or methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61347-1:2015	Lamp controlgear – Part 1: General and safety requirements
EN 61347-2-11:2001	Lamp controlgear - Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires
EN 61547:2009	Equipment for general lighting purpose – EMC immunity requirements
EN 61000-3-2:2019 +A1:2021	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase)
EN 61000-3-3:2013 +A1:2019	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16 A per phase and not subject to conditional connection
EN 301489-1 v2.2.3	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility
EN 301489-17 v3.2.4	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility
IEC 62386-101	Digital addressable lighting interface – Part 101: General requirements – System components
IEC 62386-103	Digital addressable lighting interface – Part 103: General requirements – Control devices
IEC 62386-351	Digital addressable lighting interface – Part 351: Particular requirements – Control devices – Luminaire-mounted control devices
IEC 62386-303	Digital addressable lighting interface – Part 303: Particular requirements – Input devices – Occupancy sensor.
IEC 62386-304	Digital addressable lighting interface – Part 304: Particular requirements – Input devices – Light sensor.
IEC 62386-251	Digital addressable lighting interface – Part 251: Particular requirements - Memory bank 1 extension (device type 50)
IEC 62386-253	Digital addressable lighting interface – Part 253: Particular requirements - Diagnostics and maintenance (device type 52)

Table 2: Reference standards

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

TECHNICAL SPECIFICATIONS

Description	Acronym	Values			Units of Measure	Note
		Min	Typ	Max		
POWER SUPPLY & BUS (DA terminals)						
Power Supply (from DALI bus)	PS_{DALI}		External		-	DALI bus Power Supply is required
DALI Supply Voltage range	V_{IN-RNG}	9.5	÷	22.5	Vdc	-
Standby power absorption	P_{STBY}		< 0.5		W	-
Rated power absorption (max)	$P_{ABS-max}$	@16Vdc		@22.5Vdc	-	-
		240		450	mW	
DALI Device Type	DT_{DALI}	DT6		DT8	-	Depends on Fixture selected
INPUT (Light Sensor, internal)						
Light Sensor range	LS_{RNG}	20	÷	2000	Lx	-
RF INTERFACE (CASAMBI module)						
Communication interface type	RF_{TYPE}		BLE 4.0 & 5.0		-	Bluetooth Low Energy
Communication protocol	RF_{CP}		CASAMBI		-	-
Operating Frequencies [2]	f_{OP}	2402	÷	2483	MHz	For CASAMBI© BLE SoC
Maximum Emitted Power [2]	P_{BT-max}			8	dBm	Over Bluetooth transmission
Network technology	NET_{TECH}		Self-healing, frequency-hopping, spread spectrum mesh		-	-
Wireless class	W_{CLASS}		Class 2		-	-
Data Security	DS		AES128 bit encryption + elliptical cryptography		-	-
ENVIRONMENTAL						
Storage Temperature	T_{STOCK}	-40	÷	+70	°C	Minimum values defined by design
Working Ambient temperature [3]	T_A	-40	÷	+70	°C	Minimum values defined by design
Connector Type	C_{PWR}		Zhaga Book 18		-	Power connector (external)
Protection class	IP_{CODE}		IP66		-	-
Enclosure Material	M_{CASE}		Plastic		-	With anti-UV treatment
Enclosure Attachment	A_{CASE}		Zhaga		-	-
Enclosure insulation type	INS_{TYPE}		Reinforced		-	-
Packaging unit (pieces/units)	UP		1		pcs	-
Dimensions	-	L	H	D		-
	MD	50	50	50	mm	Enclosure
Weight	W		130		g	Including packaging

Table 3: Technical specifications

INSTALLATION

WARNING! *Installation and maintenance must always be carried out in the absence of voltage. Before proceeding with the connection of the device to the power supply, make sure that the voltage of the power source is disconnected from the system.*

The device should only be connected and installed by qualified personnel. All applicable regulations, legislation, standards, and building codes must be adhered to. Incorrect installation of the device may cause irreparable damage to the device and connected loads.

Following paragraphs show the connection diagrams of the device and Bus connections. It is recommended to follow these steps to install the product safely.

[2] The parameters are derived from the configuration of the Casambi module.
[3] Depends on ventilation conditions

Zhaga connectors are typically standardized interfaces designed for plug-and-play connections, making it easy to add or replace components like sensors or communication modules.

1. Safety first: ensure the DC voltage of DALI Power Supply is turned off to avoid any risk of electric shock.
2. DALI wiring: connect the DA data bus signals to the pins 2 (DA 0V) and 3 (DA+) of Zhaga Book 18 receptacle.
   Note: CBU-MASTER-DALI-ZG is not DALI polarity sensitive. DALI bus polarity is only indicated to ensure compatibility with the wiring scheme of the ZHAGA Book 18 socket.
3. DALI Power Supply (if required): wire a DALI Power Supply on DALI bus if the DALI LED driver (or no other device inside the DALI network) does not provide bus supply (refer to Figure 2).
4. Identify the socket: locate the Zhaga socket.
5. Align the enclosure: align the CBU larger locking pin with the larger locking slot of the Zhaga socket, lightly rotating the CBU until you feel the alignment pins align to the proper location.
6. Fit the enclosure: after alignment, push downward until the CBU is all the way down on the socket. It should fit snugly without forcing.
7. Secure the enclosure: while pressing down, rotate the CBU housing clockwise until it locks into place.
8. Final check: gently pull the CBU housing to check if it is locked to the socket and verify there are no gaps or openings.
   Note: the installer is responsible for verifying the installation.

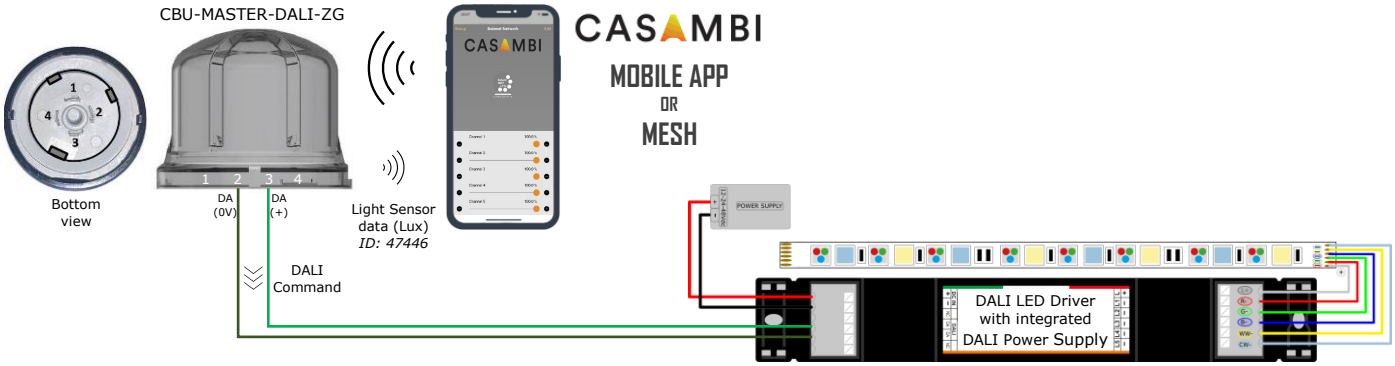


Figure 1: Wiring diagram for LED Driver with integrated DALI Power Supply

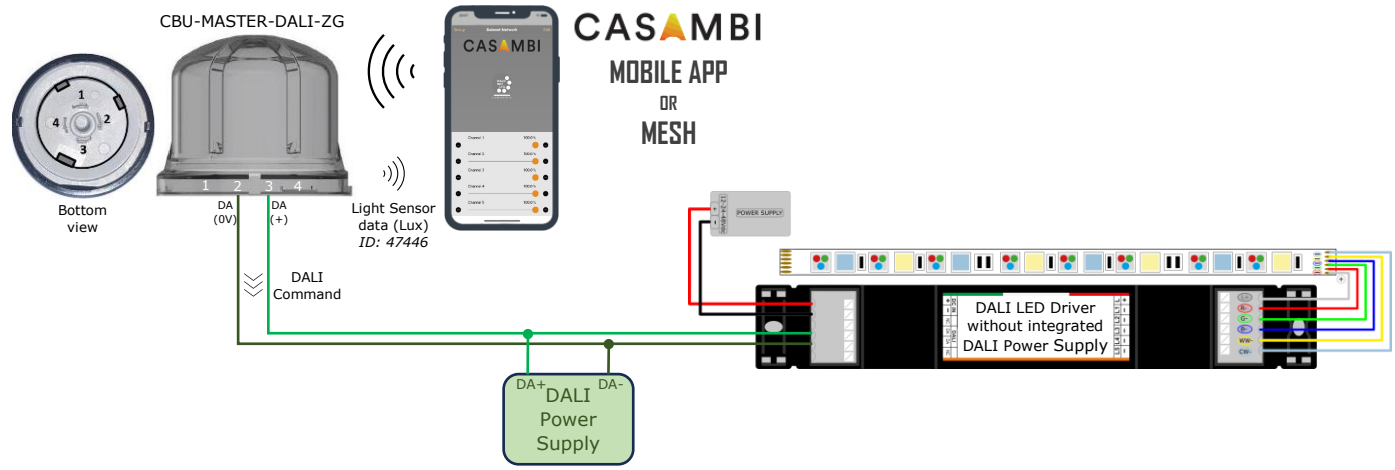


Figure 2: Wiring diagram for LED Driver with external DALI Power Supply

BUS WIRING: DALI NETWORK

CBU-MASTER-DALI-ZG can be connected via DALI digital bus by a simple two-wire cable (untwisted and unshielded). The control can be conducted by a DALI Master, which provides commands to the devices in the DALI network and, if necessary, power supply[4] to the network itself.

To connect CBU-MASTER-DALI-ZG to the DALI network, simply connect the bus cables to the "DA" terminals of the "DALI" terminal: as different topologies are possible, it is not necessary to observe the polarity of the "DA+" and "DA-" signals of the bus when connecting.

DALI CABLING TOPOLOGIES

The DALI-2 protocol supports up to 64 Control Gear slave devices and, thanks to Multi-Master mode, a limited number of Master devices (e.g., CBU-MASTER-DALI-ZG) connected with different wiring topologies shown in following figure: Bus-wiring, Star-wiring, Tree-wiring, or Line-wiring. Other topologies are excluded.

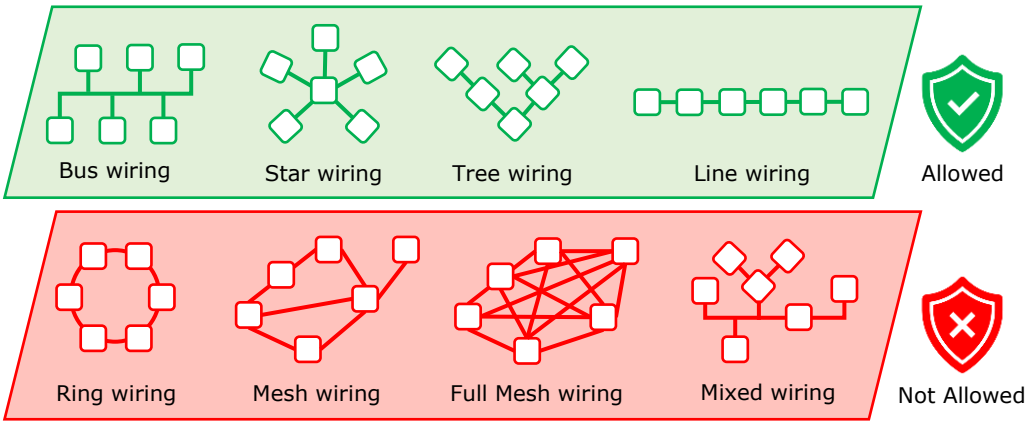


Figure 3: DALI wiring Topologies

DALI PROTOCOL

DALI (Digital Addressable Lighting Interface) is a protocol developed by the DALI Alliance (DIIA) to allow the management, configuration and programming of LED lighting systems in digital mode: through a two-way communication process between devices and control units, it is possible to execute ON, OFF or dimmer commands, report faults or information of various kinds.
Based on a Master/Slave architecture, the DALI standard allows both single digital control of devices and programming in groups and/or broadcast.
In its second version, DALI-2 allows first full compatibility with the earlier protocol, and secondly brings numerous improvements compared to DALI-1:

1. Addition of lighting control devices: e.g. buttons, sensors, and LED drivers that were not included in the earlier version. In addition, to obtain DALI-2 certification, the new protocol requires the execution of functional and compliance tests by DIIA.
2. Introduction of the Multi Master architecture: with the regulation of the various lighting control devices, it is possible to send commands and signals to the DALI-2 bus from multiple sources, easing independent, immediate, and simultaneous data communication.
3. Development of functional and application standards: new extensions have been drawn up for DALI-2 devices, e.g. for emergency lighting or colour control, creating a new product standard for smart lighting and IoT systems called D4i.

[4] The bus can be supplied by an external 16 Vdc power supply (or within the range of 12 ÷ 20 Vdc) or by a DALI Master with integrated bus power supply. For more information, please visit our website: www.dalcnet.com.

REMOTE CONTROL & CONFIG: CASAMBI©

CASAMBI© is a lighting control system based on Bluetooth Low Energy (BLE) technology. This technology allows for the creation of customized and flexible wireless lighting networks that can be easily configured and controlled via Android/iOS devices by uploading the operating profile to the device.

PROFILES OVERVIEW: FIXTURES

CBU-MASTER-DALI-ZG supports the following fixtures (customizable by CASAMBI© mobile app).

DATA TYPE	PROFILE NAME	PROFILE ID	DESCRIPTION
DT6	**DALI Broadcast [Log]**	**47334** (Default)	**Dali Broadcast Dimmer** Dali dimming curve: logarithmic. Sets the Power-ON level at maximum level (100% - 254). No addressing required.
	TW AUTOMATIC [Lin]	36034	**Two-channel dimmer** - Dimmer 1: address A0 – Warm White - Dimmer 2: address A1 – Cold White DALI dimming curve: linear. Sets the Power-ON level at maximum level (100% - 254). The short address is automatically assigned to the unaddressed devices.
	RGB AUTOMATIC [Lin]	36035	**Three-channel dimmer** - Dimmer 1: address A0 – Red - Dimmer 2: address A1 – Green - Dimmer 3: address A2 – Blue DALI dimming curve: linear. Sets the Power-ON level at maximum level (100% - 254). The short address is automatically assigned to the unaddressed devices.
	RGB+W AUTOMATIC [Lin]	36036	**Four-channel dimmer** - Dimmer 1: address A0 – Red - Dimmer 2: address A1 – Green - Dimmer 3: address A2 – Blue - Dimmer 4: address A3 – White DALI dimming curve: linear. Sets the Power-ON level at maximum level (100% - 254). The short address is automatically assigned to the unaddressed devices.
	RGB+TW AUTOMATIC [Lin]	36037	**Four-channel dimmer** - Dimmer 1: address A0 – Red - Dimmer 2: address A1 – Green - Dimmer 3: address A2 – Blue - Dimmer 4: address A3 – Warm White - Dimmer 5: address A4 – Cold White DALI dimming curve: linear. Sets the Power-ON level at maximum level (100% - 254). The short address is automatically assigned to the unaddressed devices.
	W AUTOMATIC [Log]	36783	**One-channel dimmer** - Dimmer 1: address A0 DALI dimming curve: logarithmic. Sets the Power-ON level at maximum level (100% - 254). The short address is automatically assigned to the unaddressed devices.
	2xW AUTOMATIC [Log]	36784	**Two-channel dimmer** - Dimmer 1: address A0 - Dimmer 2: address A1 DALI dimming curve: logarithmic. Sets the Power-ON level at maximum level (100% - 254). The short address is automatically assigned to the unaddressed devices.

DATA TYPE	PROFILE NAME	PROFILE ID	DESCRIPTION
	4xW AUTOMATIC [Log]	36785	**Four-channel dimmer** - Dimmer 1: address A0 - Dimmer 2: address A1 - Dimmer 3: address A2 - Dimmer 4: address A3 DALI dimming curve: logarithmic. Sets the Power-ON level at maximum level (100% - 254). The short address is automatically assigned to the unaddressed devices.
	8XW AUTOMATIC [Log]	36786	**Eight-channel dimmer** - Dimmer 1: address A0 - Dimmer 2: address A1 - Dimmer 3: address A2 - Dimmer 4: address A3 - Dimmer 5: address A4 - Dimmer 6: address A5 - Dimmer 7: address A6 - Dimmer 8: address A7 DALI dimming curve: logarithmic. Sets the Power-ON level at maximum level (100% - 254). The short address is automatically assigned to the unaddressed devices.
DT8	DALI DT8 BC TW [Lin]	36038	**1 Address to control two-channels (TW)** Send DALI DT8 BROADCAST commands for devices that support the "Colour Temperature Correction" function: Dim Level and Colour Temperature. DALI dimming curve: linear. Sets the Power-ON level at maximum level (100% - 254). No addressing is required.
-	Light Sensor	47446	**Light Sensor** Sends the brightness value (Lux) of the ambient light to the CASAMBI mesh network.

Table 4: Profile list

PROFILE MAPPING

The DALI protocol provides two Device Type (DT6 and DT8) depending on the light characteristics to be transmitted over the DALI network to the LED driver. Each profile is composed of a defined number of 8-bit channels, whose values can be set in the range (0 ÷ 254), each of which stands for a light characteristic (e.g. brightness, colour, temperature, etc.) to be modulated on the remote LED load. CBU-MASTER-DALI-ZG supports both DT8 and DT6 profiles.

DALI BROADCAST [LOG]: DALI BROADCAST DIMMER

Use this profile to control DALI devices in Broadcast mode on DALI network. Configuration from CASAMBI© mobile application.

Address	Function	Level
BC	DIMMER ALL	0…254

TW AUTOMATIC [LIN]: TUNABLE WHITE

With the "Tunable White" profile, the Warm White and Cold White values are mapped on two DALI addresses.

Address	Function	Level
A0	WARM WHITE DIMMER	0…254
A1	COLD WHITE DIMMER	0…254

RGB AUTOMATIC [LIN]

Through the "RGB AUTOMATIC" profile it is possible to adjust the intensity of the primary colours Red-Green-Blue through three DALI addresses.

Address	Function	Level
A0	RED DIMMER	0...254
A1	GREEN DIMMER	0...254
A2	BLUE DIMMER	0...254

RGB+W AUTOMATIC [LIN]

The "RGB+W AUTOMATIC" profile allows the intensity of the Red-Green-Blue primary colours to be adjusted through three DALI addresses and in addition the White light adjustment on a dedicated DALI address.

Address	Function	Level
A0	RED DIMMER	0...254
A1	GREEN DIMMER	0...254
A2	BLUE DIMMER	0...254
A3	WHITE DIMMER	0...254

RGB+TW AUTOMATIC [LIN]

The "RGB+W AUTOMATIC" profile allows the intensity of the Red-Green-Blue primary colours to be adjusted through three DALI addresses and in addition the White light adjustment on a dedicated DALI address.

Address	Function	Level
A0	RED DIMMER	0...254
A1	GREEN DIMMER	0...254
A2	BLUE DIMMER	0...254
A3	WARM WHITE DIMMER	0...254
A4	COLD WHITE DIMMER	0...254

W AUTOMATIC [LOG]: 1 CHANNEL

The "W AUTOMATIC [Log]" profile allows you to adjust the DALI level of one channel.

Address	Function	Level
A0	DIMMER 1	0...254

2XW AUTOMATIC [LOG]: 2 CHANNELS

The "2xW AUTOMATIC [Log]" profile allows you to adjust the DALI level of up to two independent channels.

Address	Function	Level
A0	DIMMER 1	0...254
A1	DIMMER 2	0...254

4XW AUTOMATIC [LOG]: 4 CHANNELS

The "4xW AUTOMATIC [Log]" profile allows you to adjust the DALI level of up to four independent channels.

Address	Function	Level
A0	DIMMER 1	0...254
A1	DIMMER 2	0...254
A2	DIMMER 3	0...254
A3	DIMMER 4	0...254

8xW AUTOMATIC [Log]: 8 Channels

The "8xW AUTOMATIC [Log]" profile allows you to adjust the DALI level of up to eight independent channels.

Address	Function	Level
A0	DIMMER 1	0...254
A1	DIMMER 2	0...254
A2	DIMMER 3	0...254
A3	DIMMER 4	0...254
A4	DIMMER 5	0...254
A5	DIMMER 6	0...254
A6	DIMMER 7	0...254
A7	DIMMER 8	0...254

DALI DT8 BC TW: DT8 broadcast for Tunable White

The "DALI DT8 BC TW" profile allows you to adjust the brightness and the Colour Temperature of Tunable White DT8 loads in broadcast mode.

Address	Function	Level
BC	BRIGTHNESS	0...254
	COLOUR TEMP. CORRECTION	0...254

Light Sensor:

With the "Light Sensor" profile, the CBU-MASTER-DALI-ZG sends the brightness value (Lux) of the ambient light to the CASAMBI mesh network.

MECHANICAL DIMENSIONS

Figure 4 details the mechanical measurements and overall dimensions [mm] of the outer casing.

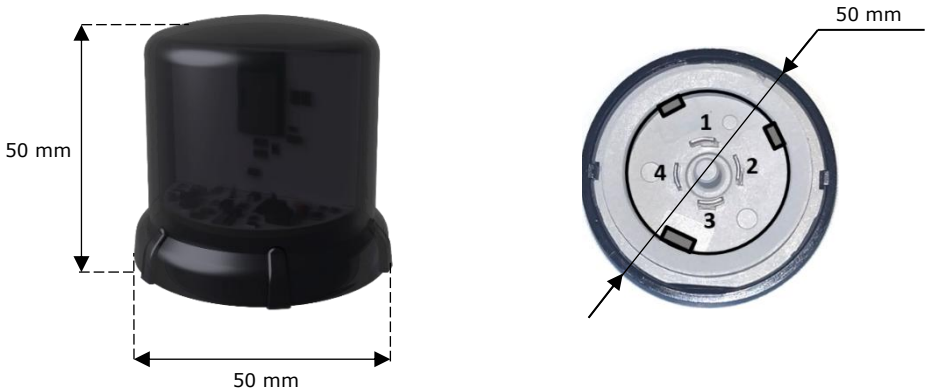


Figure 4: Mechanical dimensions

TECHNICAL NOTES

INSTALLATION

WARNING! Installation and maintenance should always be performed in the absence of DC voltage and with DALI bus not Powered. Before proceeding with the installation, adjustment, and connection of the device to the power supply, make sure that the voltage is disconnected from the system.

The device should only be connected and installed by qualified personnel. All applicable regulations, legislation, standards, and building codes in force in the respective countries must be adhered to. Incorrect installation of the device may cause irreparable damage to the device and connected loads.

Maintenance must only be carried out by qualified personnel in compliance with current regulations.

The product, with an intact/not damaged casing and correctly installed on an original Zhaga Book 18 socket, is protected against the ingress of dust and water jets according to the IP rating indicated in this document, which may be visible on the label. Installation must take place in a dry environment.

The external power supply must be protected by a properly sized circuit breaker with overcurrent protection.

Keep 230 Vac (LV) circuits and non-SELV circuits separate from SELV safety ultra-low voltage circuits and any product connections. It is strictly forbidden to connect, for any reason, directly or indirectly, the 230 Vac mains voltage to the product (BUS terminals included).

During installation, it is recommended to reserve adequate space around the device to facilitate its accessibility in case of future maintenance or updates (e.g. via smartphone).

Use in thermally harsh environments may limit the output power of the product.

The T_A ambient temperature range is a guideline to be carefully observed for the optimal operating environment. However, the integration of the device must always ensure proper thermal management (e.g. correct mounting of the device, proper ventilation, etc.) so that the temperature at the T_C point does not exceed its maximum limit under any circumstances. Proper operation and durability are only guaranteed if the maximum temperature of the T_C point is not exceeded under the conditions of use.

POWER SUPPLY AND CONTROLS

The device must be powered only with certified DALI power supplies with limited current at constant voltage, short circuit protection and power suitably sized according to the specifications indicated in the product data sheet. No other types of power supplies are allowed.

Size the power of the DALI power supply respect to the device.

Connecting to an unsuitable power supply may cause the device to operate outside of the specified design limits, voiding its warranty.

In the case of DALI power supplies equipped with earth terminals, it is mandatory to connect ALL the protection earth points (PE= Protection Earth) to a state-of-the-art and certified earthing system.

It is absolutely forbidden to connect, for any reason, directly or indirectly, the 230 Vac mains voltage to the DALI terminals of the BUS.

The length and type of bus connection cables must comply with the specifications of the respective protocols and current regulations. They must be isolated from any wiring or non-SELV live parts. It is recommended to use double-insulated cables.

All control devices and signals connected to the buses must be of the SELV type (the connected devices must be SELV or in any case provide a SELV signal).

It is absolutely forbidden to connect, for any reason, directly or indirectly, the 230 Vac mains voltage to the AUX and +24V terminals of the product.

The +24V and AUX terminals are provided for future Fixture releases and shall not be connected to any Power Supply nor electrical device.

BLUETOOTH LOW ENERGY (BLE) WARNINGS AND MOBILE APP NOTES

The BLE antenna is located inside the device.

Range between controllers in outdoors with direct line of sight and without obstacles, is up to 70 m in Balanced BLE4.0 type nets, and can be over 200 m in BLE5.0 Long range type nets. Ensure your devices are within this range for reliable communication.

Walls, floors, and other physical barriers can significantly reduce the effective range and signal strength of BLE devices. Position devices to minimize these obstacles.

Other electronic devices, especially those operating on the 2.4 GHz frequency (like Wi-Fi routers), can interfere with BLE signals. Keep BLE devices away from such sources of interference.

Ensure that all devices in your BLE network are compatible with each other and support the same BLE version. Incompatibilities can lead to communication issues.

BLE is designed for low power consumption, but the battery life of your control devices (smartphone or tablet) can still be affected by factors like transmission frequency and data volume. Monitor and manage power settings to optimize battery life.

BLE technology works optimally with non-metallic materials. Therefore, it is not recommended to surround the device by metal objects or reflective surfaces when using BLE communication.

For reliable communication, make sure that the top and side surfaces are not covered or that them are free of metal objects, wiring, or other electronic devices. Any impediments could affect the quality of communication.

To guarantee the best performances and the full use of functions, make sure to download on your device the last release of CASAMBI© mobile app.

Whenever CASAMBI© mobile app requires an upgrade of the profile installed in the product, 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 devices 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© mobile app and in §

Unpair device from CASAMBI© Network section.

LEGAL NOTES

TERMS OF USE

Dalcnet Srl (hereinafter referred to as "the Company") reserves the right to make changes to this device, in whole or in part, without prior notice to the customer. Such changes may affect technical aspects, functionality, design, or any other element of the device. The company is not required to notify you of such changes and that your continued use of the device will constitute your acceptance of the changes.

The company is committed to ensuring that any changes do not compromise the essential functionality of the device and that they comply with applicable laws and regulations. In the event of substantial changes, the company undertakes to provide clear and timely information on the same.

The customer is advised to periodically consult the www.dalcnet.com website or other official sources to check for any updates or changes to the device.

SYMBOLS

CE	All products are manufactured in compliance with European Regulations, as reported in the Declaration of Conformity.
UK CA	All products are manufactured in compliance with UK Regulations and conform to UK safety, health, and environmental requirements for products sold in the UK, as reported in the UK Conformity Assessed.
IP66	It represents the degree of protection guaranteed by the casing of a product and is defined by IEC 60529. The IP66 rating ensures protection against the ingress of dust and water jets from any direction. It is ideal for outdoor environments exposed to heavy rain or dust, but not for submersion.
	At the end of its useful life, the product described in this data sheet is classified as waste from electronic equipment and cannot be disposed of as unsorted municipal solid waste. **Warning!** Improper disposal of the product may cause serious harm to the environment and human health. For proper disposal, inquire about the collection and treatment methods provided by the local authorities.

CASAMBI

CASAMBI© is the official application through which it is possible to configure, in addition to the functions of the CBU-MASTER-DALI-ZG, also all the different CASAMBI© products equipped with BLE technology.

CASAMBI© mobile app can be downloaded free of charge from the Apple App Store and Google Play Store.

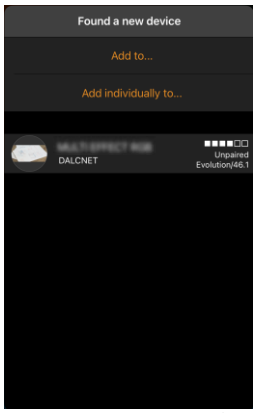
GET IT ON Google Play

Available on the App Store

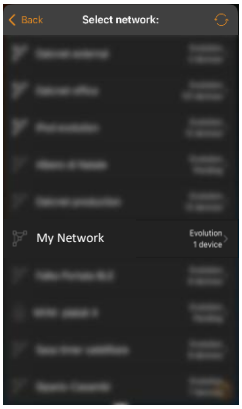
DEVICE SETTINGS

PAIR DEVICE TO CASAMBI© NETWORK

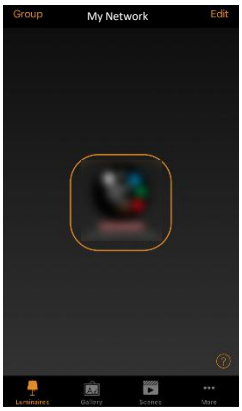
The first time you turn ON a CBU-MASTER-DALI-ZG device, it will appear in the "Found a new device" section with the default profile preloaded. Perform the following procedure to Pair the device to a CASAMBI© Network.



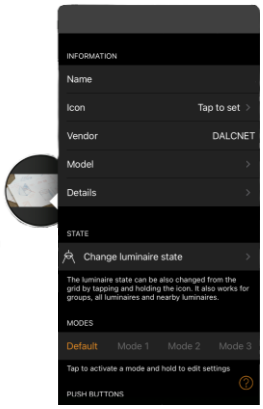
1. Open the CASAMBI© mobile app and Power ON the device. The device to be paired will appear.
2. Select *Add to…* to open the list of available networks.



3. Select the network to pair the device with.



4. Once the device has been inserted in the Network, the default profile will be loaded.



5. Double tap on the profile icon to show the device configuration.

UNPAIR DEVICE FROM CASAMBI© NETWORK

If CBU-MASTER-DALI-ZG is already connected to a known network and/or you wish to associate it with a new network, you need to unpair the device from the current Network first: please tap the device icon from *Nearby Devices* section, select *Unpair*, and confirm. The unpair process will be started. After the unpairing, the device can be paired to a new Network by following the instructions on above section.

To unpair a device already connected to an unknown Network (for which you don't have the credentials), please follow these steps:

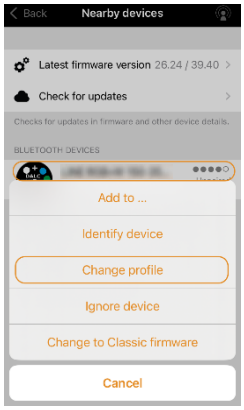
1. Tap the device icon from *Nearby Devices* section, select *Unpair*, and confirm.
2. During the unpair process, turn OFF the Power Supply connected to the CBU-MASTER-DALI-ZG.
3. Wait 1-2 seconds, then turn the Power Supply ON again.
4. On *Nearby Devices* section the device will be shown as unpaired.

Note: if the 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 Power Supply.

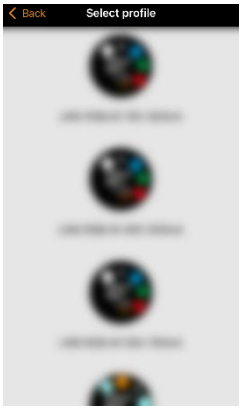
CHANGE PROFILE ON PAIRED DEVICE

Once the technical data of the load to be controlled have been verified, it is possible to configure the parameters for the selected profile by loading the Fixture on the controller. To change the Fixture on the CBU-MASTER-DALI-ZG, follow these steps.

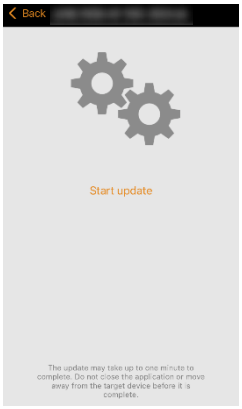
1. Power ON the device and open the CASAMBI© mobile app.
2. Select *Nearby Devices*.



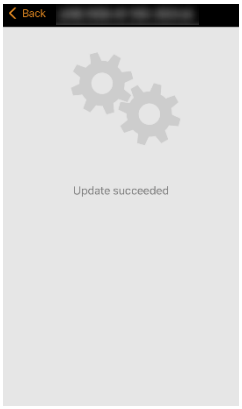
3. Tap on device's icon, then tap on *Unpair*.
4. Second tap on device's icon, then tap on *Change profile*.



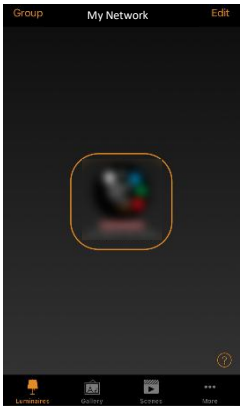
5. Select the desired profile (refer to Table 4).



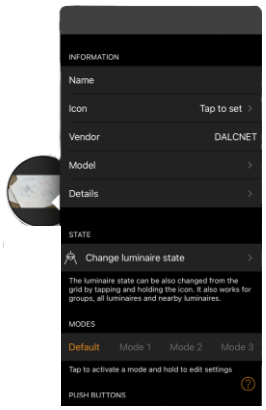
6. Tap *Start Update*.



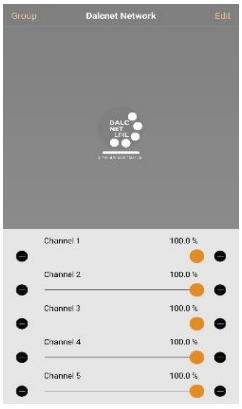
7. Wait for the profile to load correctly.
8. Back to *Nearby Devices* and select *Add to 'Network name'* to pair on the previous Network.



9. Once the device has been added to the Network, go back to *Luminaires* sheet and double tap on the profile icon to show the device configuration.



10. Hold tap on profile icon to show the profile settings.



11. Inside, the profile settings can be customized by the provided sliders and buttons.