

**FEATURES**

- BLUETOOTH+FADER+DIMMER+DRIVER
- DC Input: 12-24-48 Vdc
- Remote command options:
  - Bluetooth Low Energy (BLE/Smart)
- Local command options:
  - normally open push-button
- Adjusting the brightness of white light
- Current outputs or voltage outputs for R-L-C loads
- Typical efficiency > 95%
- Adjusting the brightness up to completed off
- Soft start and soft stop
- Optimized output curve
- Extended temperature range
- 100% functional test - 5 years warranty

**Constant current variants**

Application: Dimmer

CODE	Input voltage	Output	Channels	Commands	
DLB1248-1CC350-BLE	12÷48V DC	1 x 350mA	1	BLE – 1 N.O. push button	
DLB1248-1CC500-BLE	12÷48V DC	1 x 500mA	1	BLE – 1 N.O. push button	
DLB1248-1CC700-BLE	12÷48V DC	1 x 700mA	1	BLE – 1 N.O. push button	
DLB1248-1CC950-BLE	12÷48V DC	1 x 950mA	1	BLE – 1 N.O. push button	

Any current value in range from 150mA to 1200mA is available on demand.

**Constant voltage variants**

Application: Dimmer

CODE	Input voltage	Output	Channels	Commands	
DLB1248-1CV-BLE	12÷48V DC	1 x 8A max	1	BLE – 1 N.O. push button	

**Protections**

<b>OTP</b>	over temperature protection
<b>OVP</b>	over voltage protection
<b>UVP</b>	under voltage protection
<b>RVP</b>	reverse polarity protection
<b>IFP</b>	input fuse protection
<b>SCP</b>	short circuit protection
<b>OCF</b>	open circuit protection
<b>CLP</b>	current limit protection

## Reference standards

IEC/EN 61347-1	Lamp controlgear - Part 1: General and safety requirements
IEC/EN 61347-2-13	Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules
IEC/EN 62384	DC or AC supplied electronic control gear for LED modules - Performance requirements
IEC 61547	Equipment for general lighting purposes - EMC immunity requirements
IEC 61000-3-2	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase)
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
IEC/EN 62386-101	Digital addressable lighting interface - Part 101: General requirements - System
IEC/EN 62386-102	Digital addressable lighting interface - Part 102: General requirements - Control gear
IEC/EN 62386-207	Digital addressable lighting interface - Part 207: Particular requirements for control gear - LED modules (device type 6)
IEC 60929-E.2.1	Control interface for controllable ballasts - control by d.c. voltage - functional specification

## Technical Specifications

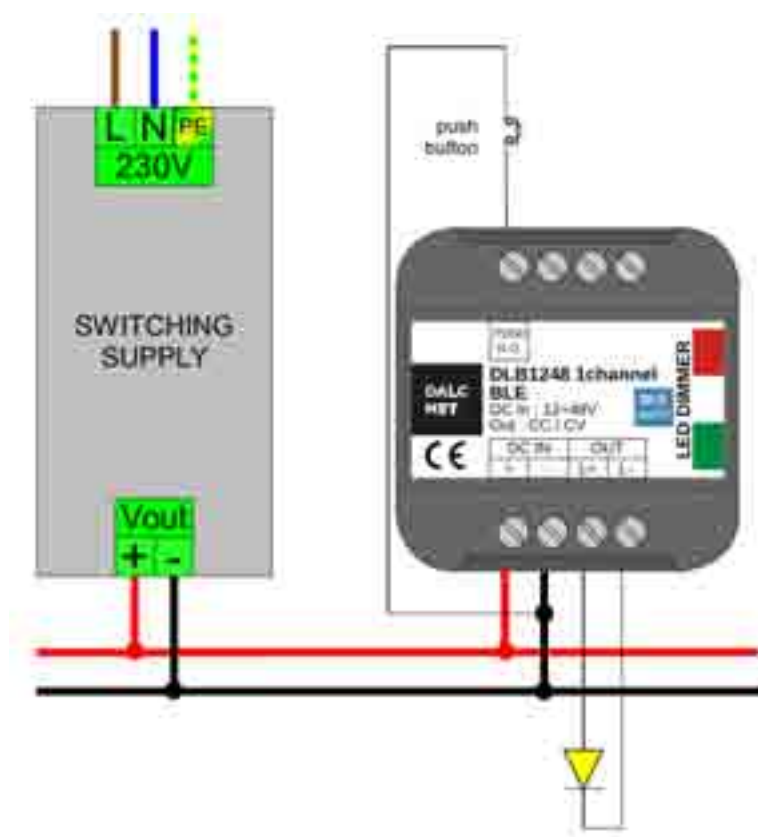
		Variants				
		Constant current				Constant voltage
		350mA	500mA	700mA	950mA	
Supply voltage		min: 10,8 Vdc .. max: 52,8 Vdc				
Absorbed power at 0%	@12V	max 170 mW				max 150 mW
	@24V	max 265 mW				max 235 mW
	@48V	max 430 mW				max 370 mW
Output voltage		min: $V_{in}/4$ max: $V_{in}-0,9V$				= $V_{in}$
Output current		350 mA	500 mA	700 mA	950mA	max 8 A peak <sup>1)</sup> max 7,5A @20°C <sup>1)</sup> max 6,5A @40°C <sup>1)</sup>
Absorbed nominal Power <sup>1)</sup>	@12V	4.2 W	6 W	8.4 W	11.4 W	78 W
	@24V	8.4 W	12 W	16.8 W	22.8 W	156 W
	@48V	16.8 W	24 W	33.6 W	45.6 W	312 W
Thermal shutdown		150 °C				
D-PWM dimming frequency		300Hz				
D-PWM resolution		16 bit				
D-PWM range		0,1 – 100%				
Storage Temperature		min: -40 max: +60 °C				
Working temperature <sup>1)</sup>		min: -10 max: +40 °C				
Protection Grade		IP20				
Wiring		2.5mm <sup>2</sup> solid - 1.5mm <sup>2</sup> stranded - 30/12 AWG				
Mechanical dimensions		44 x 44 x 25 mm				
Package dimensions		68 x 56 x 35 mm				
Weight		40g				

<sup>1)</sup> maximum value, dependent on the ventilation conditions

## Installation

As shown below do the following steps to install the product:

- 1) connect the power supply (12-48 V) to the device terminals DC IN
- 2) connect the button in the correct terminals of the device
- 3) connect the LED output terminals OUT



DLB1248-1CC350-BLE

DLB1248-1CC500-BLE

DLB1248-1CC700-BLE

DLB1248-1CC950-BLE

DLB1248-1CV-BLE



## Technical Notes

- Installation and maintenance must be performed only by qualified personnel in compliance with current regulations.
- The product must be installed inside an electrical panel protected against overvoltages
- For the power supply use a SELV power supply. In the case of using earth provided power supply, ALL points of the protective earth (PE = Protection Earth) must be connected to a valid protection earth .
- Keep 230V cables separate from circuits to low voltage (SELV) and from any connection with this product.
- The connection cables between the power source "low voltage" and the product must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. Is preferable to use shielded and twisted cables.
- (Only for multi-channel) In case of output currents higher at 10A, connect at the power supply both pairs of power supply input "V +" and "V-".
- The length of the connection cables between the product and the LED module must be less than 10m; the cables must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. Is preferable to use shielded and twisted cables.
- The length of the connection cables between the local commands (push-button, potentiometer, 0-10 V, 1-10 V, or other) and the product must be less than 10m; the cables must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. Is preferable to use shielded and twisted cables.
- It 'absolutely forbidden to connect, for any reason whatsoever, directly or indirectly, the 230V mains voltage to the bus or to other parts of the circuit.

➔ For the whole and updated **Device Manual** refer to producer's website: <http://www.dalcnet.com>



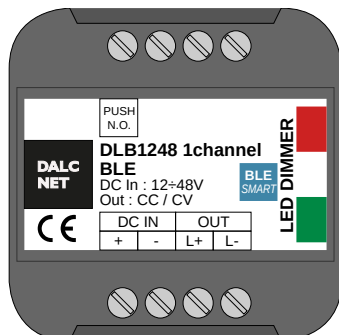
## LOCAL COMMANDS FUNCTION

### PUSH DIMMER FEATURE

*The intensity and the status change (ON/OFF) are controlled by the push button.*

Button	Intensity
Click	On/Off
Double Click	Maximum intensity
Long pressure (>1s) from OFF	Turn ON at 1% (Nightly Time), then dimmer up/down
Long pressure (>1s) from ON	Dimmer up/down

## Bluetooth SMART FUNCTION



### Features

- Bluetooth LOW ENERGY 4.1

### Functions

#### RELATION WITH LOCAL COMMANDS

Both local and remote commands can act simultaneously.  
The remote control can monitor the output status in real time.

#### ADDRESSING

Unique ID  ☒

#### CHANNEL MAPS

The intensity and the status (ON/OFF) is controlled by a Bluetooth device

Channel	Function	Value
1	Dimmer	Intensity [0..255]

#### COMPATIBLE APPS

- *Bluedimmer:*

The BlueDimmer Low Energy application is used to control through smartphone and tablet modules and strip LED connected to the dimmer DLB1248-BLE-1CH.

The APP implements the following functions:

- turning on
- turning off
- dimmer up and down
- master dimmer of multi source



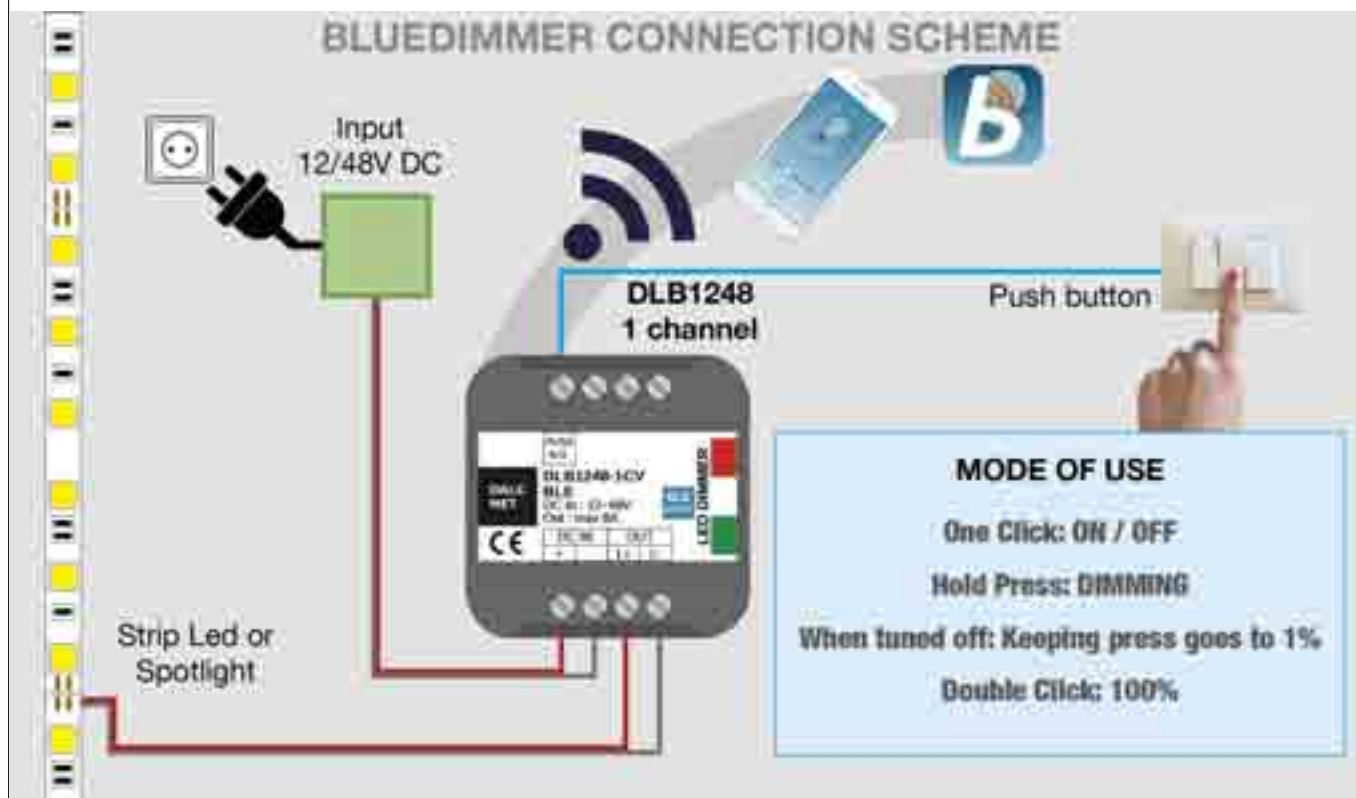
## BLUEDIMMER SOFTWARE INSTRUCTIONS



Necessary conditions for the correct use of the device:

- APPLE devices with ON Bluetooth Low Energy 4.1 version
- ANDROID devices with ON Bluetooth Low Energy 4.1 version
- Dalcnet Product DLB1248 with BLE smart function
- Strip Led or spotlight
- Push-Button
- Bluedimmer App , available on the App Store and Play Store, download for free.

### SCHEME



## APP INSTALLATION ON THE DEVICE

Download for free and install the application on your smartphone and tablet.



### OBSERVATION:

On the version of Android 6.0 is necessary to allow at BlueDimmer application to access your location.

## START UP SEQUENCE IMAGES



Automatic research and identification of DALCNET DLB1248 with BLE function products.

N.B.:

Manual research is possible by clicking on the lens symbol at the bottom of your device's screen.



Examples of results of the research:

- Device in **blue**= device associated and ready for use
- Device in **black**= new device to pair
- Device in **grey**= device already associated but not available





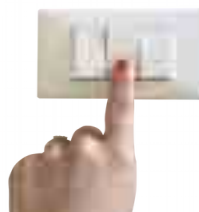
## HOW TO ASSOCIATE THE DEVICE TO THE BLUEDIMMER APPLICATION

1 – Select on the smartphone/tablet the connected device.

The strip led or spotlight connected to the selected device will automatically light on



2 – Keep press for 5 sec the push button connected to the light-on-led for pairing.



3 – On the screen will appear a box to name the strip led or spotlight controlled by DALCNET BLE device.

For ex.: you can name 'kitchen' the light in the kitchen, and 'living' the one in the living room. This is a simple way to control the lights in your house.



4 – DALCNET device has now been correctly paired and ready for use.  
You will see the lamp name on the display. Here you can start controlling your led light.

**LEGEND:**

on / off



dimmer



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