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

OTP	over temperature protection
OVP	over voltage protection
UVP	under voltage protection
RVP	reverse polarity protection
IFP	input fuse protection
SCP	short circuit protection
OCP	open circuit protection
CLP	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 ≤ 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

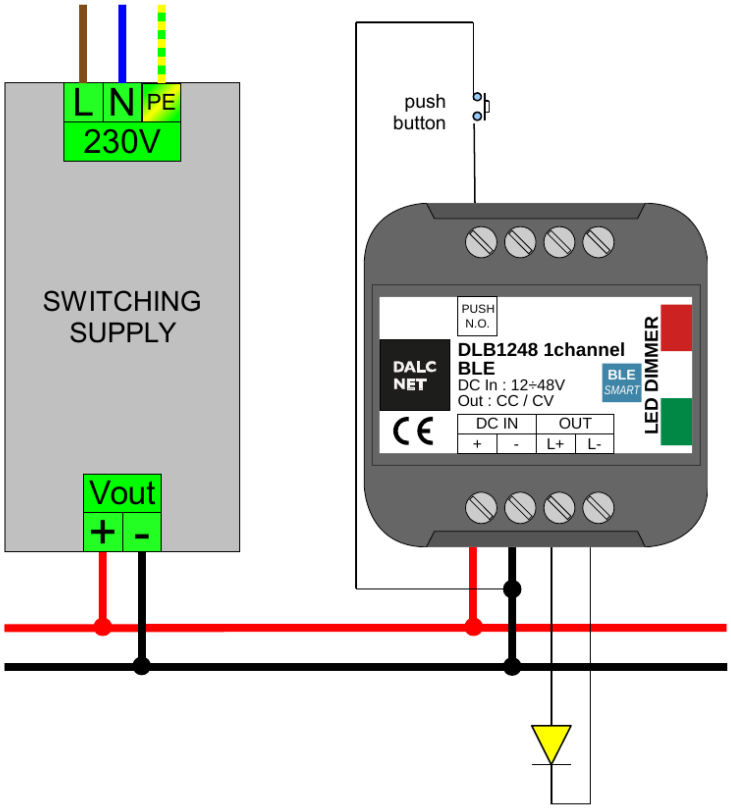
		Variants				
		Constant current				Constant voltage
		350mA	500mA	700mA	950mA	
Supply voltage		min: 10,8 Vdc .. max: 52,8 Vdc				
Absorbed power at 0%	@12V	max 170 mW				max 150 mW
	@24V	max 265 mW				max 235 mW
	@48V	max 430 mW				max 370 mW
Output voltage		min: Vin/4 max: Vin-0,9V				= Vin
Output current		350 mA	500 mA	700 mA	950mA	max 8 A peak [1] max 7,5A @20°C [1] max 6,5A @40°C [1]
Absorbed nominal Power [1]	@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 [1]		min: -10 max: +40 °C				
Protection Grade		IP20				
Wiring		2.5mm² solid - 1.5mm² stranded - 30/12 AWG				
Mechanical dimensions		44 x 44 x 25 mm				
Package dimensions		68 x 56 x 35 mm				
Weight		40g				

[1] *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*

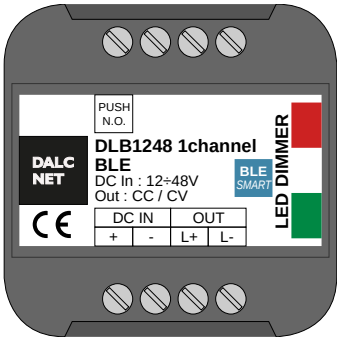
LOCAL COMMANDS FUNCTION

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]

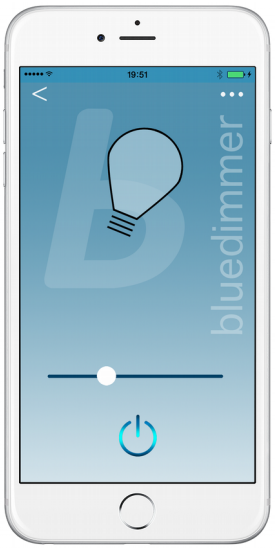
COMPATIBLE APPS

- *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

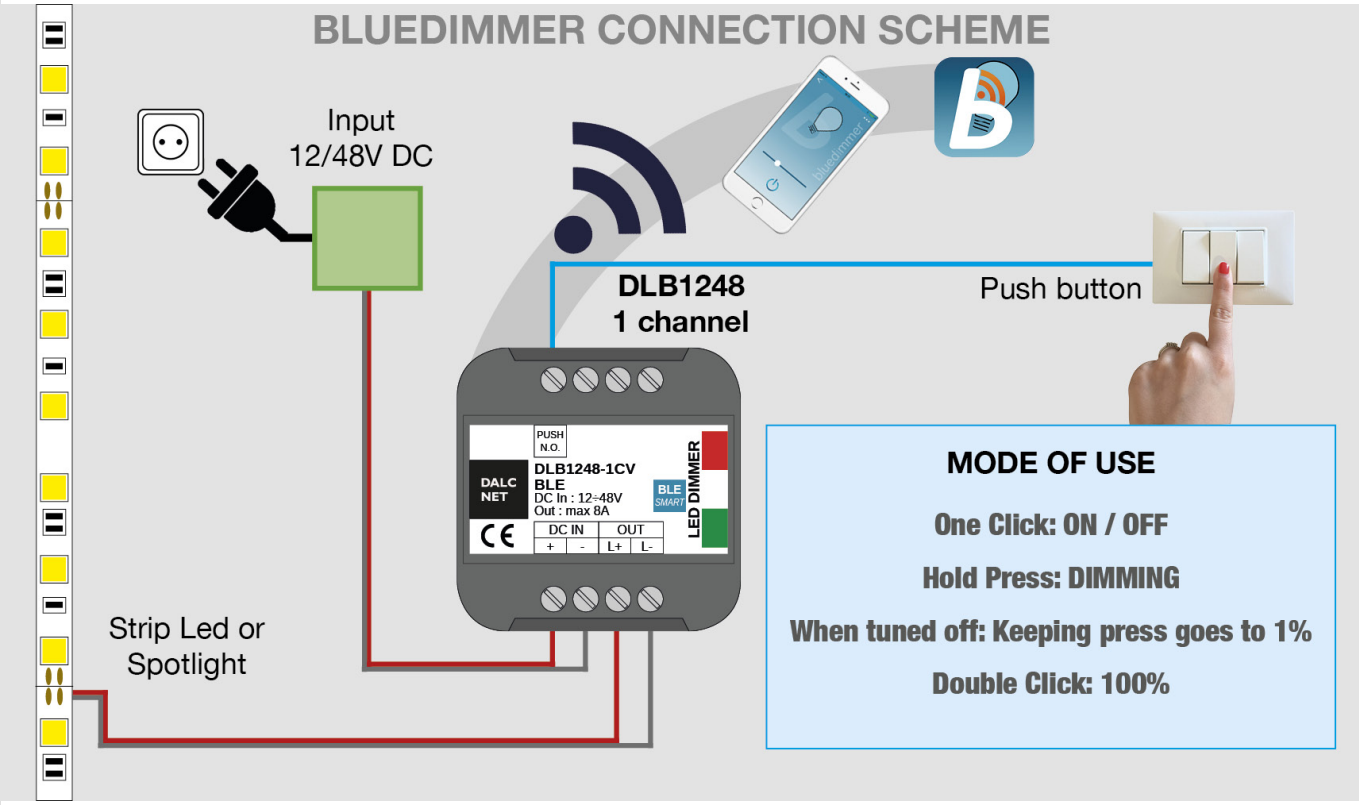


BLUEDIMMER SOFTWARE INSTRUCTIONS

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

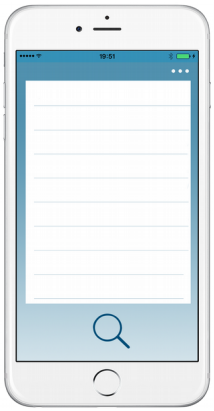
Download for free and install the application on your smartphone and tablet.

Download on the App Store

Download for Android

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

START UP SEQUENCE IMAGES

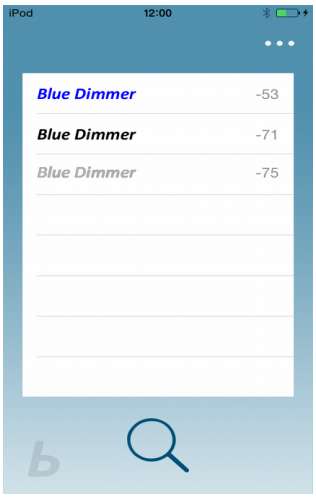


Automatic research and identification of DALCNET DLB1248 with BLE function products.

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

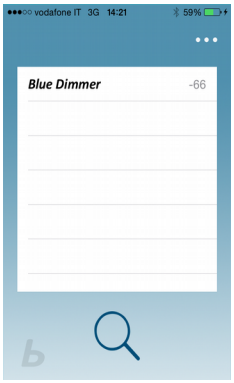
Examples of results of the research:

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

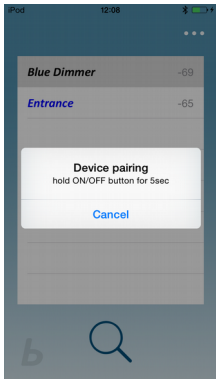


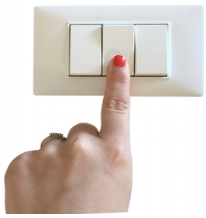
HOW TO ASSOCIATE THE DEVICE TO THE BLUEDIMMER APPLICATION

1 – Select on the smartphone/tablet the connected device.
The strip led or spotlight connected to the selected device will automatically light on



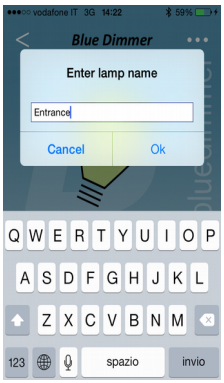
2 – Keep press for 5 sec the push button connected to the light-on-led for pairing.



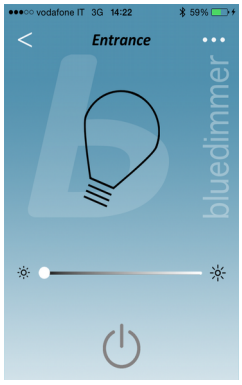


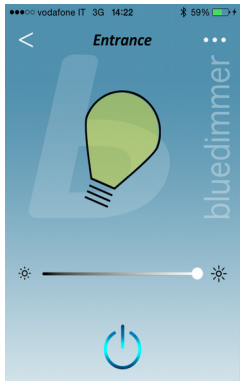
3 – On the screen will appear a box to name the strip led or spotlight controlled by DALCNET BLE device.

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

back to search devices menù