

**FEATURES**

- **BLUETOOTH+SEQUENCER+FADER+DIMMER+DRIVER**
- **DC Input 12-24 Vdc**
- **RF Command: Bluetooth low energy**
- **Local Command: Push Buttons**
- **Control: Dimmer, Tunable White, RGB or RGBW Color**
- **Current outputs or voltage outputs for LED strip**
- **Typical efficiency > 95%**
- **Adjusting the brightness up to completed off**
- **Soft start and soft stop**
- **Optimized output curve**
- **Extended temperature range**
- **100% functional test - 2 years warranty**

**Constant current variants (common anode)**

Application (4 channels output): Dimmer, Tunable White, RGB, RGBW

CODE	Supply Voltage	Output	Channels	Commands	
DLX1224-4CC350-BLE	12÷24V DC	4x350mA	4	BLE – 2 N.O. push buttons	EASY
DLX1224-4CC500-BLE	12÷24V DC	4x500mA	4	BLE – 2 N.O. push buttons	EASY

**Constant voltage variants (common anode)**

Application (4 channels output): Dimmer, Tunable White, RGB, RGBW

CODE	Supply Voltage	Output	Channels	Command	
DLX1224-4CV-BLE	12÷24V DC	4 x 5A (max 10A tot.)	4	BLE – 2 N.O. push buttons	EASY

**Protections**

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

\* these protections are added in "P" variant only



## Reference standards

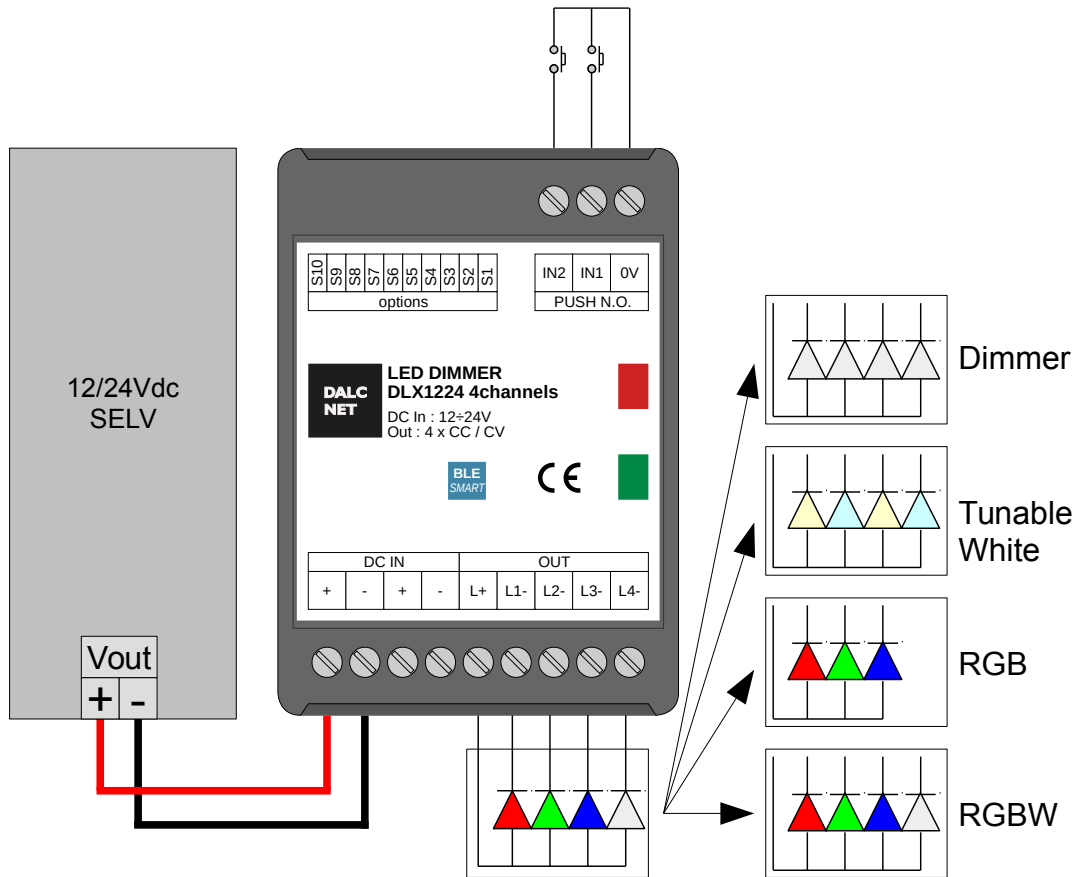
IEC/EN 61347-1	Lamp controlgear - Part 1: General and safety requirements
IEC/EN 61347-2-13	Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules
IEC/EN 62384	DC or AC supplied electronic control gear for LED modules - Performance requirements
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

		variant			
		Constant current		Constant voltage	
		4 channels		4 channels	
Supply Voltage		DC min: 10.8 Vdc .. max: 26.4 Vdc			
Input current		max 2 A		max 10A	
Output voltage		min: $V_{in}/4$ ; max: $V_{in}-0,9V$		= $V_{in}$	
Output current		350mA/ch	500mA/ch	Max 5 A/ch <sup>1)</sup>	
		<b>max 1,4 A total</b>	<b>max 2 A total</b>	<b>max 10 A total<sup>1)</sup></b>	
Nominal Power <sup>1)</sup>		@12V	16,8 W	24 W	120 W
		@24V	33,6 W	48 W	240 W
Thermal shutdown		150 °C		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			
Cablaggio - Wiring		2.5mm <sup>2</sup> solid - 1.5mm <sup>2</sup> stranded - 30/12 AWG			
Mechanical dimensions		75 x 54 x 26 mm			
Packaging dimensions		90 x 59 x 36 mm			
Weight		125g			

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

## Installation



### N.B.

**WARNING: In this product it is not possible to connect the outputs in parallel way**

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

### Technical Notes:

- The 0÷10V control input is compatible with sinking/sourcing 1÷10V controls (for device for which it has been designed). This product does not provide current sourcing.
- 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 is preferable to use a SELV power supply. In the case of using class I 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.
- The length and type of the connection cables of the BUS (DALI, DMX, Modbus, Ethernet, or other) use cables as per specification of the respective protocols and regulations and they should be isolated from every wiring or parts at voltage not SELV. Is preferable to use shielded and twisted cables.
- To connect the DMX512+RDM, Modbus and DALI bus use cables as per specification of the respective protocols and regulations.
- 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.



## Setup

Function		<ul style="list-style-type: none"> <li>Switches from 1 to 2: <b>Load Type</b></li> <li>Switches from 3 to 10: Don't use – keep at off position</li> </ul>
	Note: Factory positions = all OFF	

**Switches from 1 to 2: Load Type**

White Dimmer		Tunable White		RGB		RGBW	
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## Local Command

**WHITE DIMMER FEATURE:** *The intensity of all outputs is controlled by one button only.*

Button	Function		
1	Dimmer	Click Double Click Long pressure (>1s) from OFF Long pressure (>1s) from ON	On/Off Turn on at 100% Turn on at 10% (Nighttime) Dimmer UP/DOWN

**TUNABLE WHITE FEATURE:** *Intensity and Color Temperature Corection can be controlled by two push buttons.*

Button	Function		
1	Dimmer	Click Double Click Long pressure (>1s) from OFF Long pressure (>1s) from ON	On/Off Turn on at 100% Turn on at 10% (Nighttime) Dimmer UP/DOWN
2	Color Temperature	Double Click Long pressure (>1s)	Neutral White Color Temperature UP/DOWN

**RGB/RGBW FEATURE:** *It is possible to control intensity, color and white*

Button	Function		
1	Dimmer	Click Double Click Long pressure (>1s) from OFF Long pressure(>1s) from ON	ON/OFF Turn on at 100% Turn on at 10% (Nighttime) Dimmer UP/DOWN
2	White/Color	Click Double Click Long pressure (>1s)	Start/stop color rotation Change from White to color and vice-versa Change rotation speed

\*Color rotation speed is selectable from 4 predefined levels.

The selected speed (set by button pressure) is visualized as a white strobe light:

- 10 flash lights/s for a 6 seconds rotation
- 5 flash lights/s for a 30 seconds rotation
- 2 flash lights/s for a 6 minutes rotation
- 1 flash light/s for a 30 minutes rotation



- BLE Command

## 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.



## APP INSTALLATION ON THE DEVICE

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

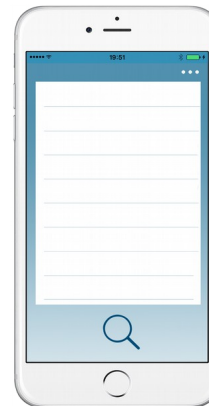


### OBSERVATION:

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:

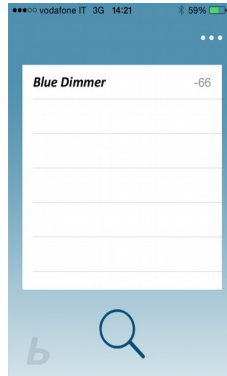
- Device in **blue**= device associated and ready for use
- Device in **black**= new device to pair
- Device in **grey**= device already associated but not available



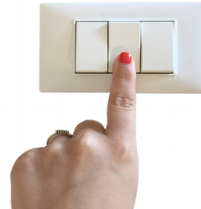
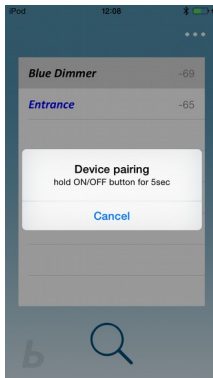
**HOW TO ASSOCIATE THE DEVICE TO THE BLUEDIMMER APPLICATION**

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

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

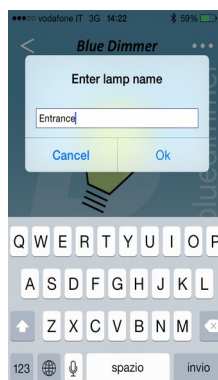


2 – Keep press for 5 sec the push button connected to the light-on-led for pairing.



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.

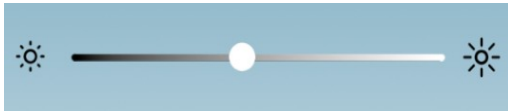




LEGEND:



on / off



dimmer



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