

LENKER LED CONTROL

RGBW WIRELESS DRIVER (BLUETOOTH MESH) (60X20MM)



I+D LED introduces RGBW WIRELESS STRIP LED DRIVER designed to control LED strips: RGB-RGBW, fixed colours and white strips. The device is controlled with any Android or iOS mobile or tablet. Its miniscule size allows the user to insert it into any type of luminaire. The driver is available in an open frame or in an IP65 protection box. It controls high powers in a certainly small format. The driver is ideal for RGB applications and light regulation for both domestic and professional areas.



In compliance with:

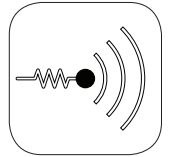
**EN62384:2007/A1:2010 - EN61547:2013 -
EN61347 - 1:2009/A1:2013**

APPLICATION

PRODUCT DESCRIPTION



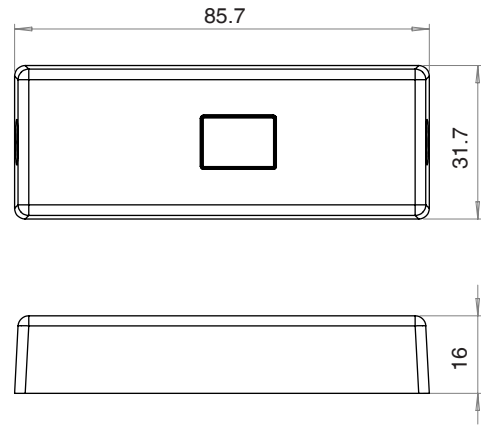
- Dimming in white, RGB and RGBW
- Light control and regulation
- Easy and fast to install
- Quick connectors: push-in
- Available also with IP65 protection
- Low energy consumption
- BLE Control with mobile
- Compact design
- SELV voltage 12-24Vcc



TECHNICAL DATA

- SELV voltage
- Operating temperature between -5°C and +50°C
- Standard Tc 75°C
- Weight open frame 12g, box 30g
- MOQ 10 units
- Dimmable via Bluetooth in Android or iOS
- For 0,5-1mm² wires
- IP20 up to IP65 protection
- Up to 100 devices per net
- It is possible to group devices
- Designed for stages, and timing control
- Dimensions: 85.7x31.7x16 mm
- Signal coverage up to 45 m outdoor and 20 m indoor

DIMENSIONS - OPEN FRAME

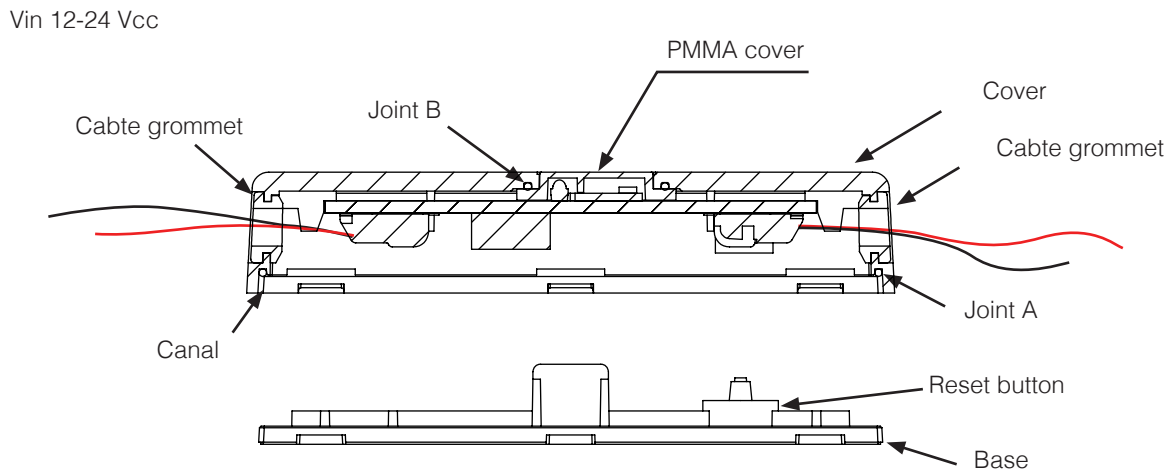


(*) Measured in mm

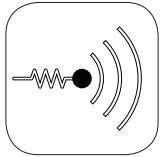
SPECIFIC TECHNICAL DATA

CODE	INPUT VOLTAGE (V)	POWER/ CHANNEL (W)	MAX. OUTPUT POWER (W)	N° CH	ROOM TEMP. (°C)	DIMENSIONS (mm)	COLOR	PROTOCOL	IP	BOX
31.40.WD.RGBW.01	12-24	36	144	4	-5 to +50	60x19,8x6,5	RED BOARD	4.2 BTLE	20	NO
31.40.WD.RGBW.02	12-24	36	144	4	-5 to +50	85,7X31,7X16	BLACK BOX	4.2 BTLE	40	YES
31.40.WD.RGBW.03	12-24	36	144	4	-5 to +50	85,7X31,7X16	BLACK BOX	4.2 BTLE	65	YES

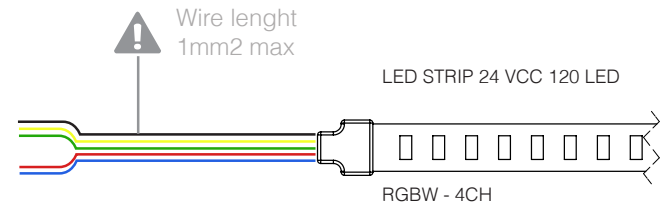
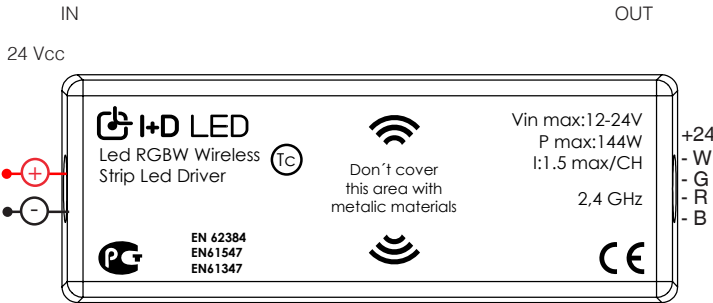
CONNECTING PARTS



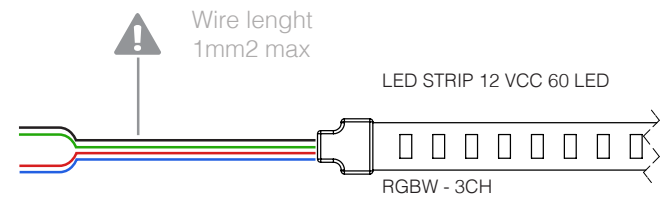
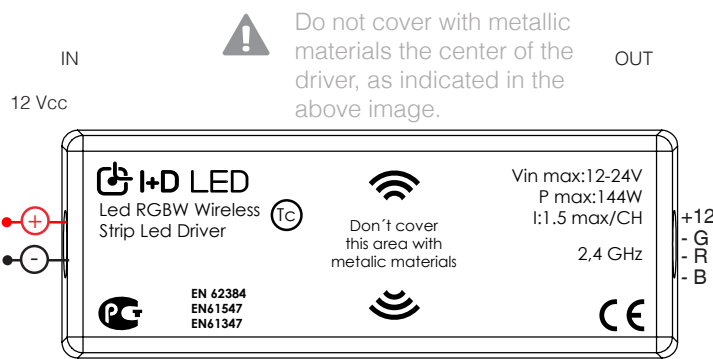
Note: Before pressing the base of th box, make sure that the joint A is properly placed in the channel of the cover and the reset button in the base.



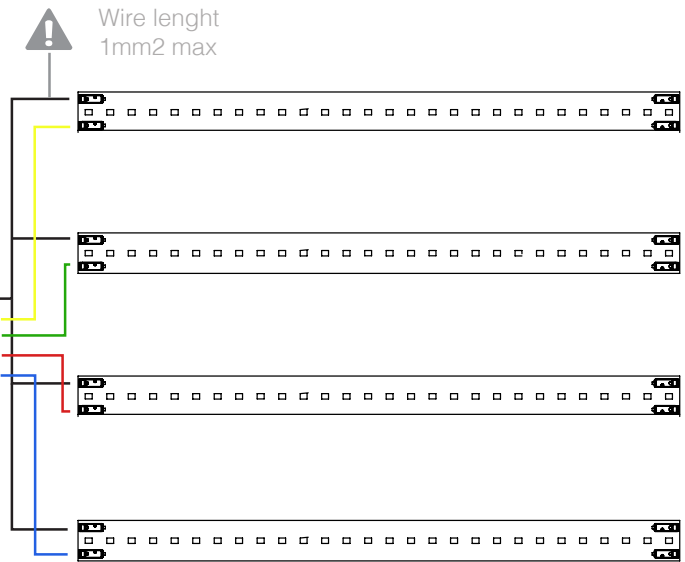
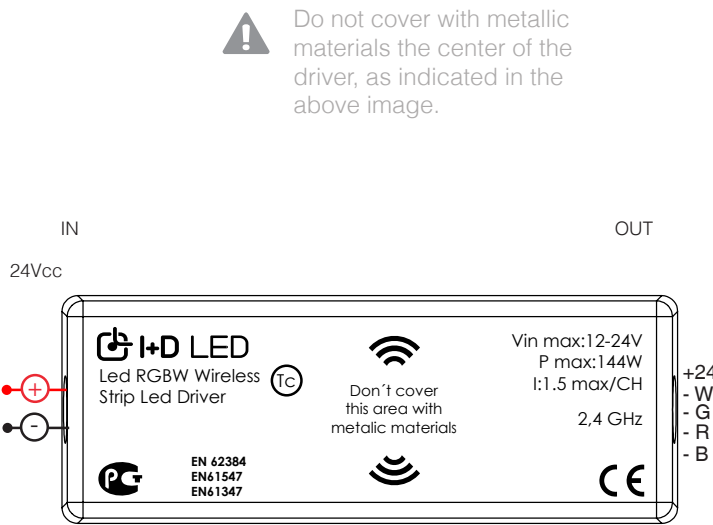
INSTALLATION AND CONNECTION EXAMPLE



Note:
For version including protection box, first introduce connection wires inside the In/Out hole.



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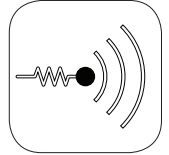
Do not cover with metallic materials the center of the driver, as indicated in the above image.

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STEPS FOR WIRELESS CONNECTION

1. Download the Android or iOS application from the links provided with the products and instruction manual.
2. Install the driver in a zone free of metal parts, as these will significantly affect the interaction with the control of the mobile or tablet. If you wish, you can also use the version including the protection box.
3. Connect the driver according to the different possible connections here specified.
4. Once the physical connection is complete, activate the Bluetooth of your phone or tablet, open the LENKER CONTROL app and pair it with the device. For security reasons, to add and pair a device to your control app, you must be within 0.5 meter or less from the device.
5. Once the driver has been added and registered in the app, no other user can control it.
6. In case there is no communication between the app and the device, restart the module. Press the reset button for 10 seconds and wait until the RGB, RGBW or White luminaire lights up and off for all channels.



SECURITY AND INSTALLATION INFORMATION



ELECTRICAL POWER

LENKER RGBW WIRELESS STRIP LED DRIVER must be feed at constant current; the energy source power must be in accordance with the quantity of connected modules for proper functioning of the module (or group of modules). LENKER RGBW WIRELESS STRIP LED DRIVER has polarity, for this reason rated current, nominal power and polarity must be taken into account. If that is not the case, the module might be irreversibly damaged. Family LENKER LED CONTROL require specific driver protection against short-circuit currents, temperature raise and overloads.



ISOLATION

LENKER RGBW WIRELESS STRIP LED DRIVER functions with SELV voltage, it does not require active isolation of the component as long as maximum reference SELV voltage is not exceeded. In other case, it will be mandatory earth connection on all conductive components of the fixture or light engine when the number of modules in the series exceeds SELV voltage. The driver must be in compliance with CE, UL or valid analogous regulation.



ESD – STATIC ELECTRICITY INFORMATION

LENKER RGBW WIRELESS STRIP LED DRIVER contains electronic components which are very sensible to static electricity. In this respect it is highly recommendable to always manipulate the items with appropriate ESD protection, and take adequate measures for safety matters. If you need further information please refer to our webpage www.idled.eu.



MOUNTING AND INSTALLATION

I+D LED S.L. is not responsible for the installation of the product. LENKER RGBW WIRELESS STRIP LED DRIVER must be perfectly placed (and/or stick the lens side (do not cover reset button)) on the lighting device, profile or base for a proper connection between modules and power source, respecting its nominal values and connection types according to the different LED modules as described in this data sheet.

If any type of chemical substance is used during the assembly of the luminaire or light engine, it must not have any type of curing by means of gas condensation; as these chemical substances may damage the LEDs and electronic components.

The driver must be introduced carefully inside the system or luminary. Always avoid mechanical stress, compression stress or superficial voltage stress over the electronic components and/or driver holder. Ideal wire for this connection type is strand or solid wire of 0,5 -1mm².

Important note: for proper device functioning, do not cover the wireless signal emission surface with any metallic component. If it is double side glued, reset button area must be accesible.



TEMPERATURE

LENKER RGBW WIRELESS STRIP LED DRIVER life-time depends to a great extent on operating temperature. Under no circumstance temperature should exceed the maximum permissible ($T_c=50^{\circ}\text{C}$) limit here indicated. Exposure to higher temperatures might affect its long term proper functioning. Room temperature must be measured under worst-case conditions to ensure life-time and keep product's guarantee. Store modules between -20°C and $+70^{\circ}\text{C}$, and at a maximum humidity level of 65%.