2805RGB Series: RGB RF LED Controller

The **2805RGB Series** is a range of RGB / 1 zone / RF PWM LED controller. Stylish and easy to operate, they are designed for constant voltage applications and are fully compatible with iLuXx luminaires equipped with the **Lineo Drive** technology. The system consists of a controller and receiver and both must be paired to allow communication between them.

2805RGB Controllers

CLC2805RGBUS - Wall mount   CLC2805DRGB - Portable, desk

Compatible Receiver

CLR2501RGB - 3 Channels x 5A

Features
✔ Full RGB color selection
✔ Reliable On/Off with soft transitions
✔ Stable dimming from 0,1 to 100% range using PWM
 technology
✔ Wireless controller (battery operated)
✔ 1 zone

Note: 1 controller can control any number of receivers and 1 receiver can be controlled by a maximum of 8 controllers

The **2805RGB Series** uses Radio Frequencies (RF) for communication between the controller and receiver. The advantages over Infra Red (IR) devices are the wider range of operation and the fact that the signal can be transmitted through walls, doors and furniture allowing a greater flexibility of installation.
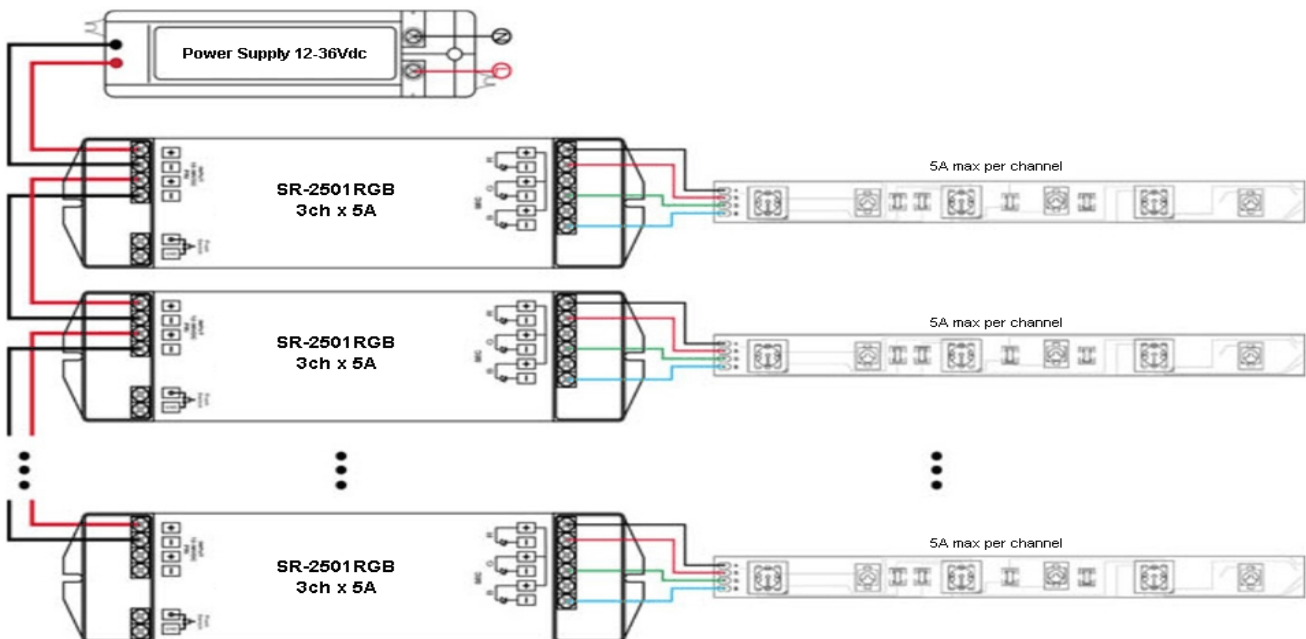
RGB RF LED Controller
1 zone, PWM

Technical Characteristics

Controllers	CLC2805RGBUS	CLC2805DRGB
Description	RGB - RF - PWM - Wall mount	RGB - RF - PWM - Portable, desk
Input Voltage	3V (CR2032 battery included)	3V (CR2025 battery included)
Signal Range	20m (65ft)	20m (65ft)
Operating Frequency	434MHz / 868MHz	434MHz / 868MHz
Color	White	Black
Operating Temperature	-20°C to 55°C	-20°C to 55°C
Dimensions	L120 x W75 x H41mm	L96 x W65 x H80mm
Warranty	3 years	3 years
Receivers	**CLR2501RGB**	
Description	3 Channels PWM Receiver	
Input Voltage	12 to 30 Vdc	
Max Load Current	15A (3ch x 5A)	
Max Output Power	180W @ 12V / 360W @ 24V	
Operating Temperature	-20°C to 55°C	
Dimensions	L178 x W46 x H18mm	
Warranty	3 years	

Wiring Diagrams

CLC2501RGB

Pairing of Receiver and Controller

1- Connect the power supply and LED lights to the receiver according to the wiring diagram.

2- Do a short press of the learning key button located on the receiver then quickly push the dial button on the controller. The LED lights connected to the receiver should blink once indicating that the pairing has been successful. (make sure the controller has a battery)

Note: Multiple receivers can be paired to one remote control and vice versa.

To unpair
1- Do a long press of the learning key until you see the LED lights blink twice

Controller Functions

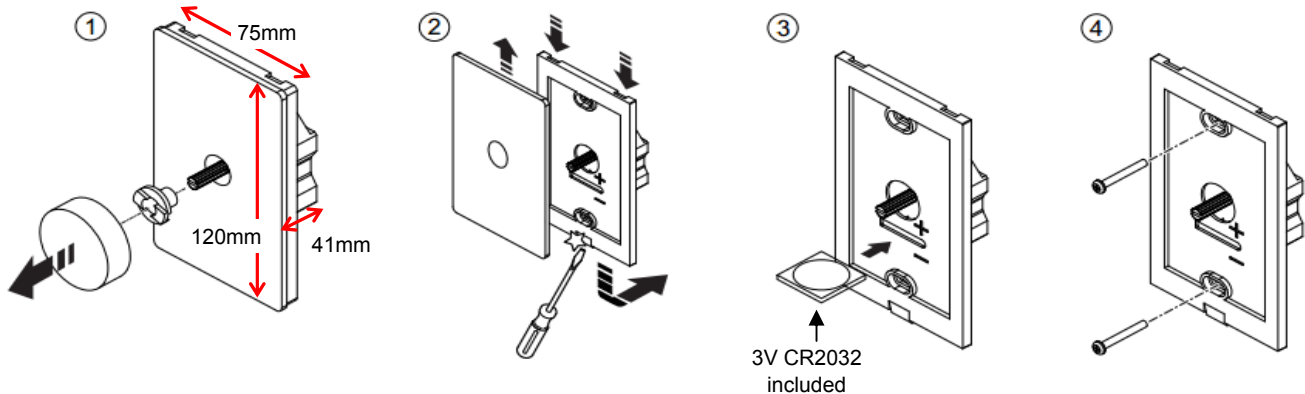| **Dial Button Actions:**	Single push	Turns light On or Off
	Double push	Alternates between color mode and dimming mode
	Left / Right movement	Color mode: selection of colour Dimming mode: controls the light output level
	Note	Retains the last settings when turned off

Safety

- DO NOT install with power applied to the receiver

- DO NOT expose the controller and receiver to direct or indirect moisture
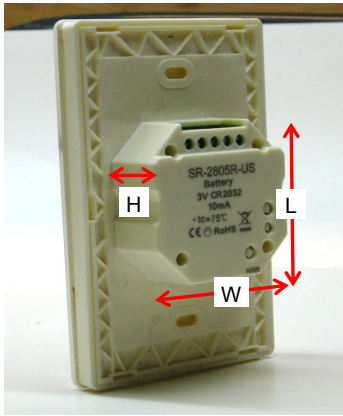
Set-Up Instructions

Controller
CLC2805RGBUS
1- Follow illustrated steps to remove the front face plate. Insert the 3V battery included with the controller

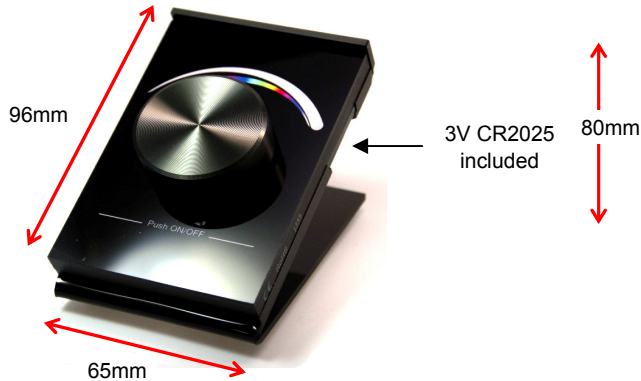① 75mm 120mm 41mm ② ③ 3V CR2032 included ④

included

Dimensions
L: 2" (51mm)
W: 2" (51mm)
H: 0,75" (19mm)

Because the controller is wireless, it can be installed anywhere on the wall. A hole in the wall slightly greater than 2 "x 2" is required to fit the 2"x 2" protrusion of the controller.

CLC2805DRGB

96mm

65mm

80mm

3V CR2025 included

Receiver
1- Make sure power to the receiver is disconnected
2- Remove the plastic covers to get access to the terminal blocs
3- Using a small flathead screwdriver, loosen the desired clamp screws of the terminal blocs
4- Insert the wires according to the wiring diagram and tighten clamp screws. Make sure the polarity is correct to prevent damage to the LEDs.
5- Turn power on and check if LED light is working. If no illumination, check all connections.