

CUSTOMER	PROJECT	DATE
TYPE	QTY	PO #

LS-CON-EMT-MAN-RGBW-SINGLE

Wireless RGBW control kit · RF 2.4 GHz · 12–48 VDC



KIT CONTENTS

- 1 × single-zone RGBW wall remote with wall holder
- 1 × 4-channel RGBW receiver controller, 12–48 VDC



Specifications

REMOTE	
Color	White
Dimming type	RGBW
Wireless signal	RF 2.4 GHz
Power supply	3 VDC (1 × CR2032 coin cell)
Standby current	< 2 µA
Range	30 m (ideal conditions)
Operating temperature	–25 °C to +50 °C
Weight	40 g ± 5 g
Dimensions	104 × 58 × 9 mm · 108 × 63 × 14 mm with holder
RECEIVER CONTROLLER	
Input signal	RF 2.4 GHz
Input voltage	12–48 VDC
Output voltage	12–48 VDC
Number of channels	4
Load current	15 A max.
Load power	180 W @ 12 V · 288 W @ 24 V 360 W @ 36 V · 480 W @ 48 V
Protection	Short-circuit, over-temperature, overcurrent, reverse polarity
Reset switch	No
Weight	46 g ± 5 g
Dimensions (L × W × H)	91 × 37 × 21 mm
WARRANTY	
Warranty	5 years

Description

Wireless control kit for RGBW LED strips, made up of a touch-ring wall remote and a 4-channel receiver controller. The RF 2.4 GHz signal removes the need for any control wiring. Works from 12 to 48 VDC, up to 480 W.

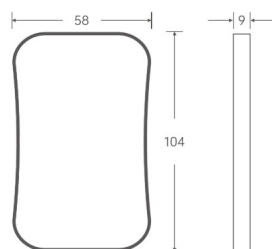
Key features

- Compact housing in V0-rated flame-retardant PC (Covestro / Samsung)
- Soft start and smooth dimming for visual comfort
- RF 2.4 GHz wireless, no signal cables
- Ultra-sensitive touch ring for color selection
- One-touch color shortcuts
- 9 dynamic modes and 7 static modes
- One remote controls an unlimited number of controllers within range
- Dynamic sync of controllers in the same group or zone
- LED status indicators

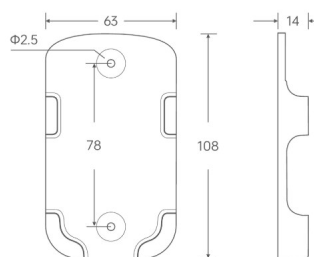
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Dimensions

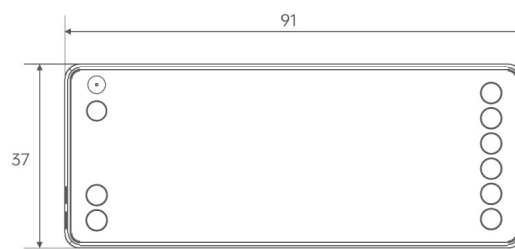
Dimensions in millimetres



Remote

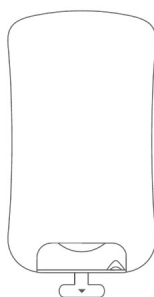
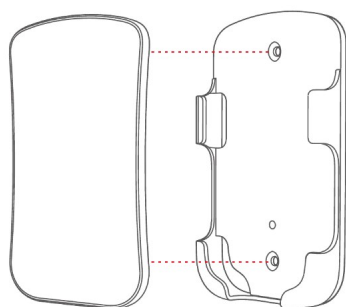


Remote wall holder



Receiver controller · 91 × 37 × 21 mm

Wall holder installation



Two mounting options:

- 1 Fix the holder to the wall with two screws.
- 2 Fix the holder to the wall with 3M double-sided adhesive.

Note — Pull out the battery insulation tab before first use.

Battery replacement (CR2032)



- 1 Unscrew the bottom screw with a screwdriver.



- 2 Pull out the battery compartment and replace the battery.



- 3 Tighten the screw after replacing the battery.

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Remote functions



Power

Turns the lights on or off.

Touch color ring

Touch the RGB ring to select a color.

Mode / Speed

Short press: switches between dynamic and static mode. In dynamic mode, press and hold to adjust speed. Short press "R" and "W" together: cycles through dynamic modes.

Brightness + / -

Short press: 11 levels. Long press (1-6 s): continuous adjustment over 255 levels.

Red / Green / Blue

Short press: turns the corresponding static channel on or off. Long press (1-6 s): continuous brightness adjustment of that channel.

White (W)

For RGBW strips. Short press: turns the W channel on or off. Long press (1-6 s): continuous W adjustment over 255 levels.

Scene

Short press: recalls the scene. Long press for 2 s: saves the current lighting state.

Built-in modes

9 DYNAMIC MODES	
1	Red-purple fade
2	Blue-purple fade
3	Color temperature fade (warm white, cool white)
4	Three-color fade (RGB)
5	Six-color fade (red, green, blue, yellow, purple, cyan)
6	Seven-color jump (red, green, blue, yellow, purple, cyan, white)
7	Seven-color fade (red, green, blue, yellow, purple, cyan, white)
8	Three-color fade (RGB)
9	White: gradual brighten and dim

7 STATIC MODES	
10	Red
11	Green
12	Blue
13	Yellow
14	Purple
15	Cyan
16	Mixed white

COLOR RING	
■ Red	R100 G0 B0
■ Yellow	R100 G100 B0
■ Green	R0 G100 B0
■ Cyan	R0 G100 B100
■ Blue	R0 G0 B100
■ Purple	R100 G0 B100
■ White	R100 G100 B100

Ring values in % per channel.

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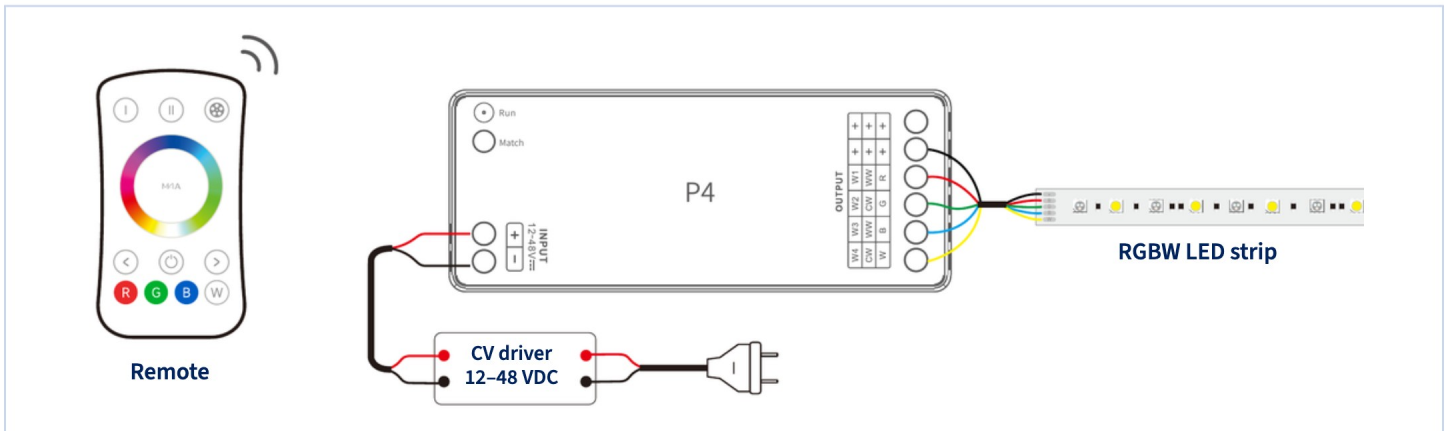
Receiver controller — terminals



Run: running indicator • **Match:** ID learning button
INPUT: 12–48 VDC power input

OUTPUT	DIM	CCT	RGB	RGBW
+ (x2)	Strip common positive (V+)			
Channel 1	W1	WW	R	R
Channel 2	W2	CW	G	G
Channel 3	W3	WW	B	B
Channel 4	W4	CW	—	W

Wiring diagram



Pairing and clearing

Button pairing

- 1 Briefly press **Match** on the controller: the indicator flashes. Complete step 2 within 10 s.
- 2 Press and hold the remote's **Power** button until the indicator flashes rapidly, then stays lit. The ring now responds to touch: pairing complete.

Power-on pairing

- 1 Power the controller off, then back on. Complete step 2 within 10 s.
- 2 Press and hold the remote's **Power** button until the indicator flashes rapidly, then stays lit: pairing complete.

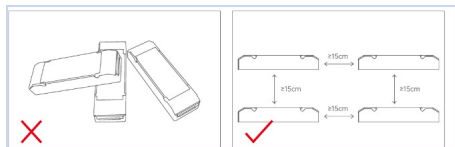
Clear all remotes

Press and hold **Match** on the controller for 6 s. The indicator flashes rapidly 4 times, then stays lit: all codes are cleared.

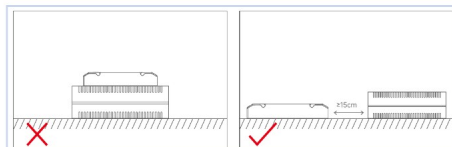
Note — One controller accepts up to 10 remotes. Beyond that, the ID of the first paired remote is deleted automatically.

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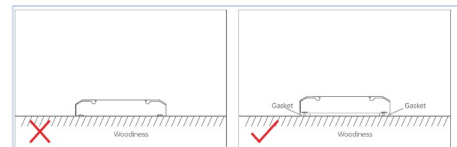
Installation precautions



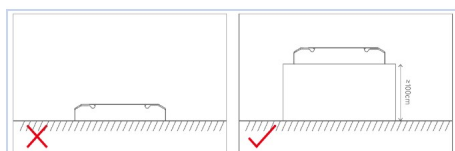
Do not stack units. Keep at least **15 cm** between two units to preserve heat dissipation and service life.



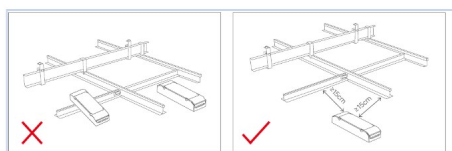
Do not place the unit on top of a power supply. Keep at least **15 cm** between the unit and the power supply.



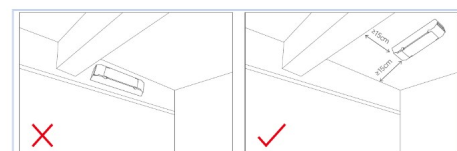
Do not screw the unit flat against wood. Add a washer at least **7 mm** thick under the screws to leave a ventilation gap.



Do not place the unit on the floor. Install it at least **100 cm** above the floor to avoid signal interference.



Avoid large-area contact with metal (e.g. ceiling grid frames). Keep at least **15 cm** away to avoid signal interference.



Do not install on beams or near corners. Keep at least **15 cm** away to avoid signal interference.

Warnings

- Installation and commissioning must be performed by a qualified professional.
- Not waterproof and not lightning-protected (special models excepted): keep away from sun and rain. Outdoors, install in a waterproof enclosure or an area with lightning protection.
- Good ventilation extends product life.
- Avoid thunderstorm-prone areas, strong magnetic fields and high-voltage areas.
- Make sure the supply voltage meets the product specifications.
- Check all wiring before powering on to prevent a short circuit.
- If a fault occurs, do not attempt to repair the product: contact Boréalux.

This document is subject to change without notice.