



SWITCHED LIVE OUTPUT



MAX. CURRENT 10A



## AC/DC POWER SUPPLY



**CASAMBI**



## ■ Features

- Casambi relay for controlling non-dimmable loads
- Switched live output
- Maximum output current: 10A
- Ability to control loads powered by AC or DC
- Two dedicated push button inputs for controlling Casambi devices
- Integrated CBM module (it can be paired to Casambi Long Range networks)
- Compact size and very low standby power consumption
- Multiple Casambi fixture profiles available

- **Description**

CBU-RL-2P is a Casambi relay for controlling non-dimmable loads. CBU-RL-2P device uses Bluetooth Low Energy communication to receive a command signal from the Casambi app and control the power supply to the connected load through the internal relay according to the selected fixture profile.

CBU-RL-2P has a switched live output of up to 10A and allows control of loads powered by AC or DC (24V) through its two different power supply modes.

There are several Casambi fixture profiles available for CBU-RL-2P, which include different control modes: Toggle, Independent Toggle, Press, Pulse...

CBU-RL-2P also integrates two independent push button inputs for controlling Casambi devices.

Configuration and control can be done from a mobile phone or tablet using the free CASAMBI APP (available for iOS and Android).

In order to access the most updated manuals and information, consult our website:  
<https://www.oller.com/oller-cbu-rl-2p.html> or QR code.



## ■ Technical data

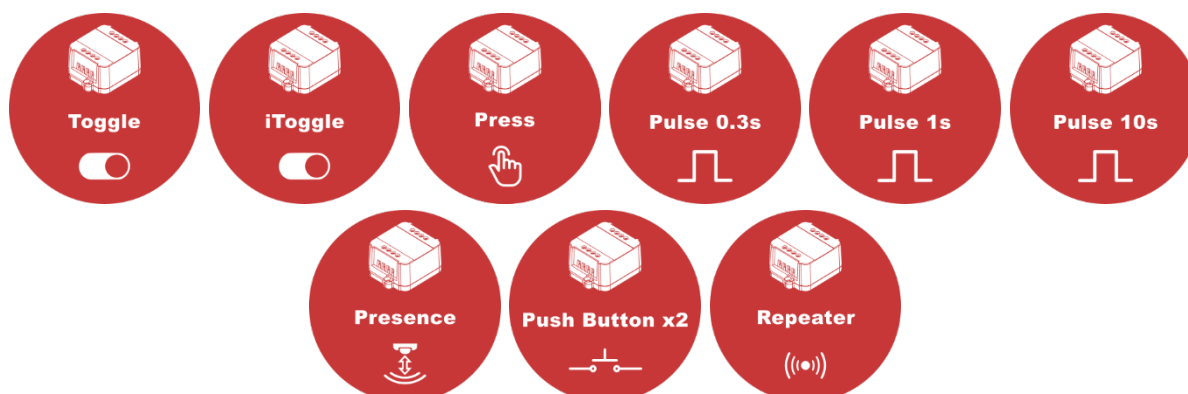
<b>CBU-RL-2P</b>		
Power supply mode		AC
		DC
Nominal input voltage		110 ... 240 Vac
Input voltage range		99 ... 264 Vac
Input frequency		47 ... 63 Hz
Input current <sup>1)</sup>		≤ 20 mA
Power consumption <sup>1)</sup>		≤ 0,85W
Standby power consumption <sup>2)</sup>		< 0,25W
Max. load	Incandescent or mains halogen lamps	10 A
	LED lamps and drivers	6 A
	High frequency fluorescent lamps	6 A
	Electronic or wire wound transformers	6 A
	Motors (cos φ > 0,4)	3 A
	Max. inrush current	120 A (20ms)
Control output		Switched live output (normally open relay)
Push button input <sup>3)</sup>		2 x Normally open push button (N.O.)
RF	Communication interface	Bluetooth Low Energy (BLE) 4.0 / 5.0
	Communication protocol	Casambi
	Operating frequencies	2402–2483 MHz
	Max. transmission power	+7 dBm
Firmware update		OTA (Over The Air)
Protections		Line permanent over voltage (non-replaceable fuse), line surge over voltage, over temperature.
Operating temperature range		-20°C ... +50°C
Operating relative humidity range		0 ... 80% non-condensing
Connector		Screw terminals (Max. torque: 4 Lb.In / 0,5 Nm)
Wiring	Solid size	0,2 ... 3,3 mm <sup>2</sup> / 30 ... 12 AWG
	Stranded size	
	Wire strip length	6,5 mm
IP		IP20
Enclosure material		Plastic (UL94-V0)
Dimensions and weight		44 x 57 x 25 mm / 50gr
Single box		55 x 68 x 35 mm / 0,065 kg
Packing		160 units per box / 34 x 31,5 x 23 cm / 10,8kg
Standards		EN 60669-2-1:2022, EN 61000-3-2, EN 61000-3-3, EN 301489-1, EN 301489-17, EN 300328
Directives		(LVD) 2014/35/UE, (EMC) 2014/30/UE, (RED) 2014/53/UE, (RoHS) 2011/65/UE, (REACH) 1907/2006.

<sup>1)</sup> Values measured with the relay activated/closed.

<sup>2)</sup> Values measured with the relay deactivated/open.

<sup>3)</sup> The recommended maximum wiring distance between the push button and terminals is 100 meters (in installations with strong electromagnetic interferences, shielded cable may be required). Push button inputs are designed exclusively for connecting a normally open push button. Make sure not to connect live parts to PB1 and PB2 terminals.

## ■ Casambi fixture profiles



Factory default fixture profile is **#39288 Toggle**.

Several Casambi fixture profiles are available, which include different control modes:

- Toggle
- Independent Toggle
- Press
- Pulse
- Presence
- Push Buttons
- Repeater...

To access the full Casambi fixture profiles information, please refer to the next link:

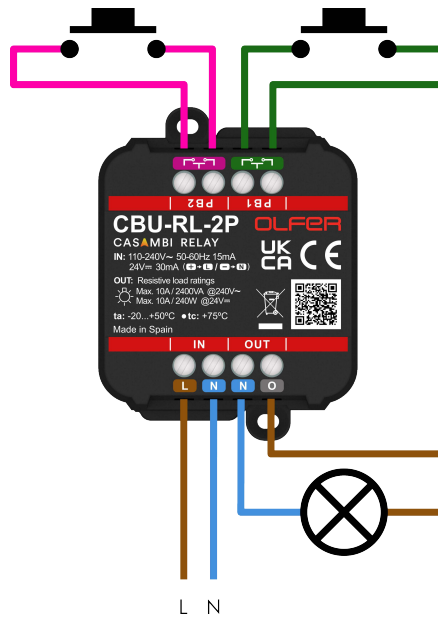
<https://www.olfer.com/olfer-cbu-rl-2p.html>

Type	Profile				Description	Manual App Control	
	Fixture ID	Model / Name	Icon	Fixture mode			
Relay	39288**	Toggle		PWM/Elements{OHL, HWTemp}	Relay fixture. Toggle switch for relay output control. All lamps button or Press/slide on the same profile icon <b>DOES</b> change the relay status.	OUT: Toggle button for relay output (O)	
	39289	iToggle		PWM/Elements{OHL, HWTemp}	Relay Profile. Independent toggle switch for relay output control. All lamps button or Press/slide on the same profile icon does <b>NOT</b> change the relay status.	OUT: Toggle button for relay output (O)	
	39290	Press		PWM/Elements{OHL, HWTemp}	Relay Profile. Independent push button for relay output control. Releasing the push button deactivates the relay immediately. All lamps button or Press/slide on the same profile icon does <b>NOT</b> change the relay status.	OUT: Push button for relay output (O)	
					Relay Profile. Independent push button for relay output control. Pressing the push		

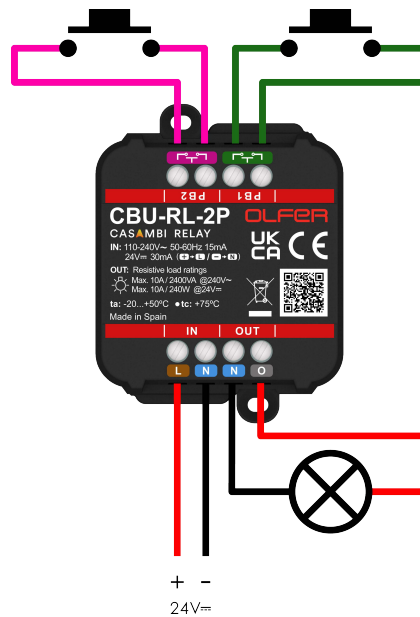
Other fixture profiles available on request.

## ■ Wiring diagram

### ➤ Control of AC-powered loads:





### ➤ Control of DC-powered loads (24V):



- The internal relay will always switch the signal wired to the input terminal “**L**”, to the output terminal “**O**”. Therefore, in AC power supply mode, it will switch the mains phase, while in 24VDC power supply mode, it will switch the power positive.

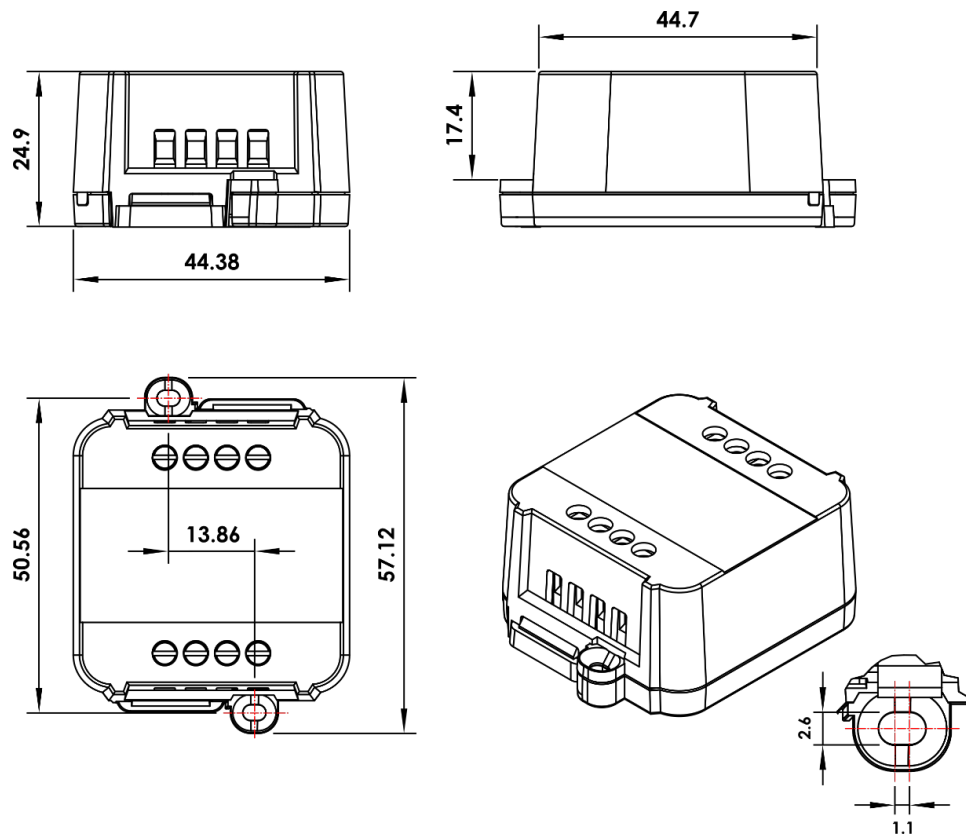
- Both “**N**” terminals are internally bridged in the device to facilitate the connection of the load.

- Up to two normally open push buttons can be connected to the PB1 and PB2 terminals marked with the symbols “” and “”. Make sure not to connect live parts to these terminals.

To access the [full wiring diagram information](https://www.olfert.com/olfert-cbu-rl-2p.html), please refer to the next link:

<https://www.olfert.com/olfert-cbu-rl-2p.html>

## ■ Mechanical dimensions

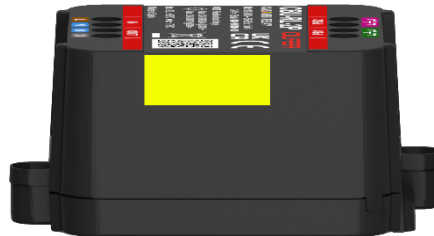


## ■ Placement and antenna location

Like any other Casambi product with Bluetooth control, make sure not to place the product inside a metal case or placed near large metal structures. Metal will significantly block the radio signal, which is crucial for the proper functioning of the device.

When the product is mounted inside a metal case (e.g. integrated into a metal light fixture), a cut-out around the antenna may be needed for allowing the RF signal to exit the structure. The cut-out area should be as large as possible. Also the device should be placed as far away from any vertical structures as possible.

CBU-RL-2P's antenna is located on the right side of the device (below location marked in yellow):



The range between two devices in open air without obstacles is up to 150 meters in balanced networks. Higher ranges could be achieved using long range networks.

Effective range is also highly dependent on the surrounding and obstacles, such as walls and building materials.

OLFER and CASAMBI are registered trademarks. We reserve the right to make any changes without notice in the information reflected herein, not being liable for any harm that this may cause. This information is relative to the current product version. Due to firmware, software or hardware improvements, it is possible that previous product versions can lack some of the features indicated in this datasheet.