

## RF10VSET

2.4GHz Wireless Dimming System

Item ref: 154.940UK

User Manual





Caution: Please read this manual carefully before operating  
Damage caused by misuse is not covered by the warranty

## Introduction

Thank you for choosing the Fluxia RV10VSET wireless dimming system to control your lighting installation. This set offers dimming control over a 2.4GHz wireless network, avoiding the need for additional low voltage wiring. This system has low energy requirement and can relay signals between receivers for creating expanded networks. Please use the following instructions as a guide when installing these products.

Note: this product is only suitable for lighting products which are 0-10V or 1-10V dimmable

## Package contents

RF wall mount rotary control  
3-way DC jack splitter lead

Wireless dimmer receiver  
User manual

If any parts or accessories are missing, contact your dealer immediately.

## Safety

products and should only be installed by a qualified electrical installer.  
All mains connections must be made in accordance with the appropriate safety regulations.  
To prevent the risk of fire or electric shock, do not expose any components to liquids or moisture.  
Avoid impact, extreme pressure or heavy vibration to the components.  
No user serviceable parts inside – Do not open the transmitter or receiver main housings.

All components are professional mains



This equipment is Class II compliant

## Safety Symbol and Message Conventions



**CAUTION**  
**RISK OF ELECTRIC SHOCK**  
**DO NOT OPEN**

**AVIS**  
**RISQUE DE CHOC ELECTRIQUE**  
**NE PAS OUVRIR**



**This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit**



**This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.**

## Placement

The RF wall mount rotary control must be installed into a recessed or surface mount back box.  
The wireless dimmer receiver should be positioned in the ceiling or above LED panels.

## Cleaning

Clean components with a soft dry cloth. Do not use solvents on the housings.

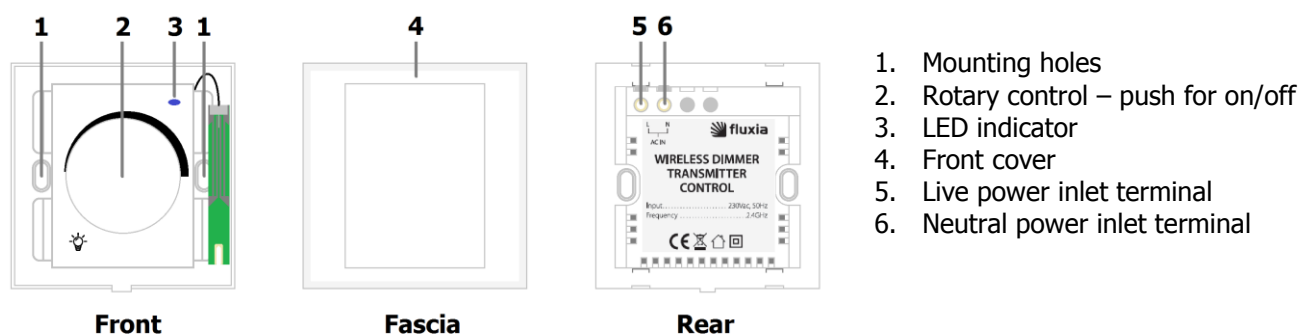
## Installation

The RF10VSET wireless dimming system offers convenient lighting control of 0-10V dimmable lighting products, such as Fluxia dimmable LED panels.

The system comprises a wall mount rotary control, which transmits a 2.4GHz wireless control signal to a wireless dimmer receiver, which translates the wireless signal into 0-10Vdc signal for dimming control.

Both the wall mount rotary control (transmitter) and wireless dimmer receiver are powered directly from the mains. Both are double insulated and do not require an Earth connection.

### Wall Mount Rotary Control

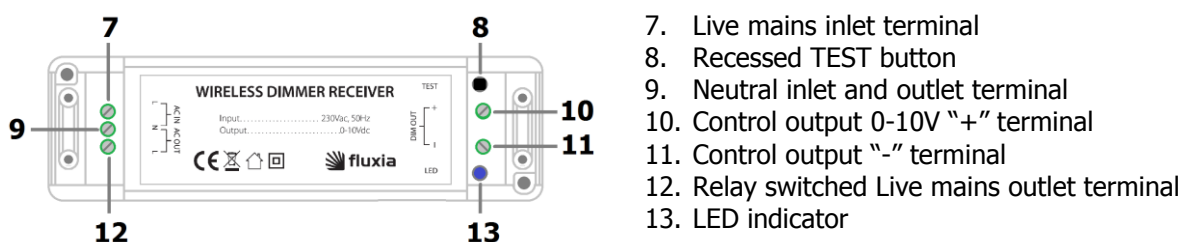


The wall mount rotary control must be fitted into a recessed or surface mounted single gang (86 x 86mm) back box in order to cover live connections on the rear of the unit. Remove the front cover of the dimmer control by carefully prizing the top and bottom edges away from the housing to reveal the 2 mounting holes (1) behind the fascia.

With the power disconnected, attach Live and Neutral mains wires to the "L" (5) and "N" (6) screw terminals on the rear panel and insert the dimmer control into the back box.

Using the standard pattress box screws from the back box (M3.5 type, not supplied), fix the dimmer control into the back box through the 2 mounting holes, then push the front cover onto the control housing securely.

### Wireless dimmer receiver



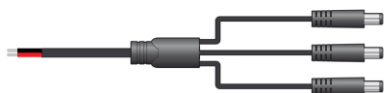
The wireless dimmer receiver should be placed near to the dimmable drivers of LED ceiling panels.

Remove the end covers of the wireless dimmer receiver by unfastening the 4 screws on top of the housing. This will reveal the wiring terminals.

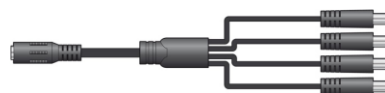
With mains disconnected, connect Live and Neutral wires to the terminals labelled "AC IN L + R" (7, 9) "AC OUT" has a relay switched Live terminal which is off when dimming control is off or at minimum. This may be connected to other lighting which is non-dimmable up to 7A max current rating. Once the mains wires are attached, replace the cover over the mains wiring compartment.

Connect the supplied 3-way DC output splitter lead to the "DIM OUT" terminals (10, 11) with the red wire (centre connection) to positive and the black wire (outer connection) to negative. Connect the DC jacks to the 0-10V control inputs of the dimmable LED driver for each luminaire.

Each of the DC jacks (5.5 x 2.1mm) can be further split to control up to 10 luminaires in total.



**DC lead supplied with set**



**Optional DC lead 777.002UK**

## Wireless Network Setup

The wall mount rotary control and wireless dimmer receiver supplied in the RF10VSET should already be paired but this can be cancelled and reset at will if necessary. It may be easier to do this with the wireless dimmer receivers temporarily connected to the mains near to the rotary control rather than in the ceiling.

To set a wireless dimmer receiver to the initial mode, switch the power off and switch the power back on whilst holding the TEST button for 3 seconds.

Alternatively, whilst powered up, hold the TEST button for 10 seconds, release and press briefly again.

The LED will flash 2 times per second.

A further short press of the TEST button will cause the wireless dimmer receiver to form a new wireless network. This is indicated by the LED staying on static.

On the wall mount rotary control, press and hold the on/off button for 10 seconds.

This sets the wall controller to initial mode. The LED will flash once every 2 seconds.

On the wireless dimmer receiver, short press TEST again and the LED will flash once every second.

This flashing lasts for 30 seconds and indicates that the wireless network is available for connection.

During this time, on the wall mount rotary control, short press the rotary control and the controller and receiver should be connected together. Each should have a static lit LED until the dimmer control is rotated.

When the dimmer control is rotated or pressed, LEDs on both controller and receiver should flash together.

It is also possible to hear the relay switch inside the wireless dimmer receiver responding to the wall control.

Additional receivers may be added by setting them to initial mode (hold TEST for 10 seconds, then press again briefly)

Then go to the existing wireless dimmer receiver that is already connected to the network and press TEST briefly to open the network for connection – the LED indicator will flash once per second for 30 seconds

During this time, any additional wireless dimmer receivers that are in initial mode (LED flashing twice per second) within radio range will now join the wireless network. The rotary control should now operate all receivers simultaneously.

## Operation

Rotate the wall mount rotary control clockwise to increase brightness or anti-clockwise to decrease brightness.

The LED will indicate blue for dimming, purple for maximum or flash red if the rotary is turned further.

Pressing the rotary control switches lighting on or off. The previous dimming level is always remembered.

## Specifications

Power supply	230Vac, 50Hz (wall mount rotary control and wireless dimmer receiver)
Carrier frequency	2.4GHz
Wireless control protocol	IEEE 802.15.4
Output connection	3 x DC5521 jack (expandable up to 10)
Output	0-10Vdc, 20mA
Relay	Live switched output (receiver), 7A max.
Dimensions :	Transmitter - 86 x 86 x 48mm, Receiver - 140 x 45 x 28mm
Weight : transmitter	Transmitter – 140g, Receiver - 170g



**Disposal:** The "Crossed Wheelie Bin" symbol on the product means that the product is classed as Electrical or Electronic equipment and should not be disposed with other household or commercial waste at the end of its useful life. The goods must be disposed of according to your local council guidelines.

*Errors and omissions excepted.  
Copyright © 2014. AVSL Group Ltd.*