



In-line Dimmer

Quick Start Guide
Model No. LW822

Before you start

You will need

-  Safe place in which to situate the Dimmer
-  Suitable electrical screwdrivers
-  Knowledge of how to safely turn off/on mains electricity
-  Your Link or Link Plus and smartphone

Installing yourself?

Please note that all Lightwave products can be legally DIY installed in your own home; however, if in doubt, always consult a qualified electrician.

It is important to install this product in accordance with these instructions. Failure to do so may risk personal safety, could create a fire hazard and will also void your warranty.

If conducting an insulation resistance test, any hard-wired Lightwave devices must be disconnected from the mains, or damage to the unit may occur.

In the box



LW822 In-line Dimmer

Specification

- RF frequency:** 434 MHz
- Input rating:** 230V~ 50Hz.
- Output rating:** 200W max
- Device class:** Class 0 (requires housing)
- Standby Energy Use:** Less than 1W
- Warranty:** 2 year standard warranty

Help video & further guidance

For additional guidance, and to watch a video that will help guide you through the installation process, please visit the support section on www.lightwaverf.com

Hints and tips

Get the best out of your install

LED Lamp compatibility

Lightwave in-line dimmers are designed to work with the majority of dimmable LEDs, but, as every lamp can behave differently, it is advisable to choose variants that have been tested and proven to work well. If you plan to use LEDs, we strongly recommend that you consult our compatibility chart (see www.lightwaverf.com). The LEDs must be dimmable (not all varieties are), and you should not exceed the maximum loading recommendations provided on the compatibility chart or damage could occur.

Loading

The In-line Dimmer can be used to dim lighting loads of up to 200W (incandescent). For LED loading limits please refer to the maximum number of lamps recommended by type on our compatibility charts (see www.lightwaverf.com).

Location

The In-line dimmer is a class 0 device which means that it should be housed in a suitable dry location or electrical housing to minimise the risk of contact with live electrical wires. The Lightwave LW824 Waterproof housing can be used to situate the Dimmer in an external environment. If in doubt, always consult an electrician.

Range

Lightwave devices have an excellent communication range within a typical home, however, if you encounter any range issues, try to ensure that large metal objects or bodies of water (e.g. radiators) are not positioned in front of the device or in between the device and the Lightwave Link / Link Plus or controller.



Environmentally friendly disposal

Old electrical appliances must not be disposed of together with residual waste, but have to be disposed of separately. The disposal at the communal collecting point via private persons is for free. The owner of old appliances is responsible to bring the appliances to these collecting points or to similar collection points. With this little personal effort, you contribute to recycle valuable raw materials and the treatment of toxic substances.



EU Declaration of Conformity

Product: In-line Dimmer
Model/Type: LW822
Manufacturer: LightwaveRF
Address: Innovation Campus Birmingham, Faraday Wharf, Holt Street, Birmingham, B7 4BB

This declaration is issued under the sole responsibility of the LightwaveRF. The object of the declaration described above is in conformity with the relevant union harmonisation legislation.

Directive 2011/65/EU ROHS,
Directive 2014/53/EU: (The Radio Equipment Directive)

Conformity is shown by compliance with the applicable requirements of the following documents:

Reference and date:
EN301489-3 V1.6.1: (EMC),
EN300220-2 V3.1.1 (RF),
EN62479:2010 (RF Exposure),
EN60669-2-5:2013 (Safety),
BS1363-2:1995 (UK Safety)

Signed for and on behalf of:
Place of Issue: Birmingham
Date of Issue: 20th August 2017
Name: John Shermer
Position: CTO

1 Install the Dimmers

The easiest way to learn how to install Lightwave devices is to watch our short installation video which are accessible at

<https://support.lightwaverf.com>

Carefully follow the instructions in this section in order to install the In-line dimmer. Please remember that live electricity is dangerous. Do not take any risks. If in any doubt, consult a qualified professional. For other advice, please contact our dedicated technical support team on 0121 250 3625.

1.1 Turn off the mains electricity supply

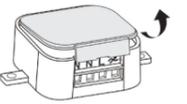
Turn off the mains power supply to your existing power circuit at the consumer unit.

1.2 Prepare a suitable location

The In-line dimmer is a class 0 device which means that it should be housed in a suitable dry location or electrical housing to minimise the risk of contact with live electrical wires. If in doubt, consult an electrician.

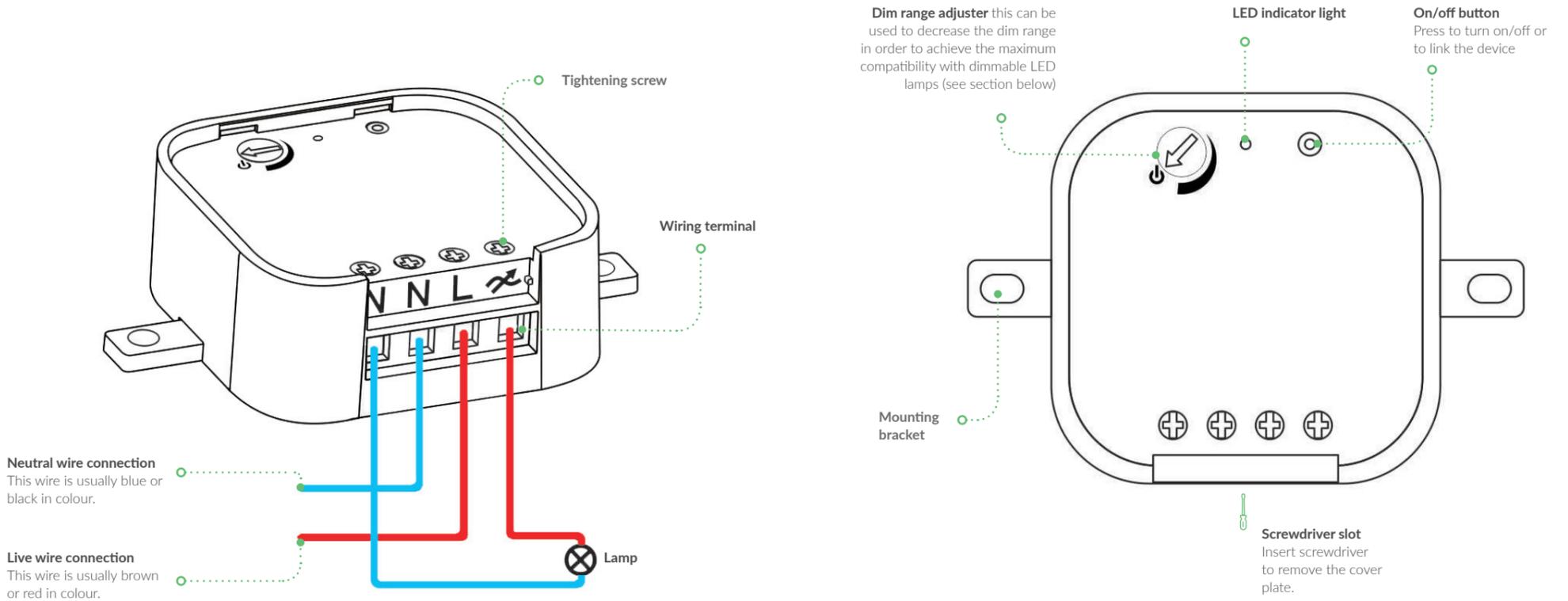
1.3 Remove the faceplate

Remove the cover from the Lightwave In-line Dimmer by carefully inserting a screwdriver into the small slot located at the bottom edge.



1.4 Wire the Dimmer

Carefully wire the Dimmer as shown in the diagram. Be aware that existing cables can vary in colour and may not always be correctly labelled. If in any doubt, always consult a qualified electrician. Replace the faceplate by hooking it onto the top edge of the Dimmer and clipping in the bottom.



2 Link the In-line Dimmer

To be able to command the dimmer, you will need to link it to a Lightwave Link, Link Plus or other Lightwave controller.



Please follow the in App instructions which will explain how to link devices.

On the In-line Dimmer, press and hold the 'on' / 'off' button until the indicator LED flashes, and then release it. The Dimmer is now in linking mode.

Using a Lightwave controller or the App, press the button to link to the device (the App instructions will guide you through this). The indicator on the Dimmer will flash to confirm that it is now linked.

Repeat the same process to unlink the device.



Hold button on dimmer ● flash



Press button on app ● flash

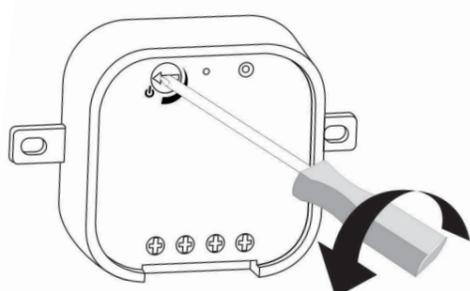
3 Other dimmer functions

Clearing the memory

To clear the memory, enter linking mode, and then hold down the on/off button until the LED flashes. Release the button and tap (don't hold) it. The LED will flash red to confirm that the memory has been cleared.

Adjusting the dim range

The dim range adjuster can be used to decrease the dimming range of the In-line Dimmer in order to achieve the maximum compatibility with dimmable LED lamps. If a dimmable LED flickers when it is dimmed, the range can be reduced incrementally using the adjuster dial (as shown) and the LED re-tested. Keep narrowing the dim range using the dial until stability has been achieved at all dim levels for that particular LED lamp.



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