



Lightwave LP83 Gang Smart Relay User Manual

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LIGHTWAVE®

Lightwave LP83 Gang Smart Relay



Preparation

Installation

If you plan to install this product yourself, please follow the electrical wiring instructions carefully to ensure the product is installed safely, if in any doubt please consult a qualified electrician.





It is important to install this product in accordance with these instructions. Failure to do so may risk personal safety, create a fire hazard, violate the law and will also void your warranty. Lightwave RF Technology Ltd will not be held responsible for any loss or damage resulting from not correctly following the instruction manual.

IMPORTANT: Any electrical installation must comply with Building Regulations, BS 7671 (1ET Wiring Regulations) or local equivalent.

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

IMPORTANT: High-Power inductive loads can potentially damage the device and are not recommended.

You will need

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

Applications

The Smart Relay (3 gang) is designed to provide power to and remotely turn on/off up to three independent circuits.

Loading

The maximum load across all three circuits should not exceed 3500W when added together in total.

Location

The Smart Relay needs to be housed in a suitable enclosure to minimize the risk of contact with live electrical wires and to ensure that the device meets IEC Class II requirements. The Lightwave LW823 Waterproof housing can be used for this purpose and will also allow the Relay to be installed Outdoors.

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 Plus.



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.

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:** Smart Relay (3 gang)
- **Model/Type:** LP83

- **Manufacturer:** Lightwave RF
- **Address:** The Assay Office, 1 Moreton Street, Birmingham, B1 3AX

This declaration is issued under the sole responsibility of Lightwave RF.
The object of the declaration described above is in conformity with the relevant union harmonization 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:

- EN 60669-1:1999+A1:2002+A2:2008,
- EN 60669-2-1:2004+A1:2009+A12:210,
- EN 55015:2013+A1:2015, EN 61547:2009,
- EN 61000-3-2:2014, EN 61000-3-3:2013,
- EN 62479:2010, EN 301 489-3 V2.1.1,
- EN 300 220-1 v3.1.1 (2017-02),
- EN 300 220-2 V3.1.1 (2017-02) Signed for and on behalf of:

Signed for and on behalf of:

Place of Issue:

Birmingham

Date of Issue:

February 2022 Name:

John Shermer Position: CTO

Installing the Relay & Linking

Carefully follow the instructions in this section in order to install the Relay. Please remember that mains electricity is dangerous. Do not take any risks. For other advice, please contact our dedicated technical support team at www.lightwaverf.com.

The easiest way to learn how to install the Lightwave Smart Relay is to watch our short installation video which is accessible at www.lightwaverf.com/product-manuals

1. Prepare a suitable location The Smart Relay needs to be housed in a suitable enclosure to minimize the risk of contact with live electrical wires.
This will ensure that it meets IEC Class II requirement. If in doubt, consult an electrician.
2. Turn off the electricity supply Turn off the mains power supply to your existing power circuit at the consumer unit.
3. Connect to mains power The Smart Relay can be used to switch up to 3 circuits and always requires mains power to operate. Connect the line and neutral power cables to the Relay as shown in the diagrams. Be aware that existing cables can vary in color and may not always be correctly labelled. If in any doubt, always consult a qualified electrician.

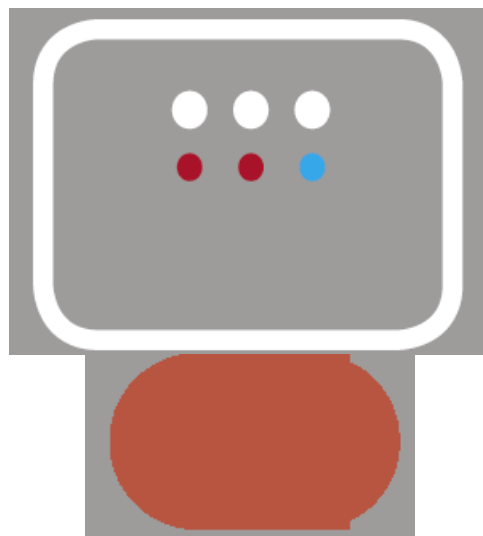
Linking

To be able to command the Relay, you will need to link it to the Link Plus.

- Follow the in-app which will explain how to link devices. instructions



- On the Relay, press and hold down any of the 3 main buttons until the LED flashes blue and red alternately then release it. The Relay is now in linking mode. it.

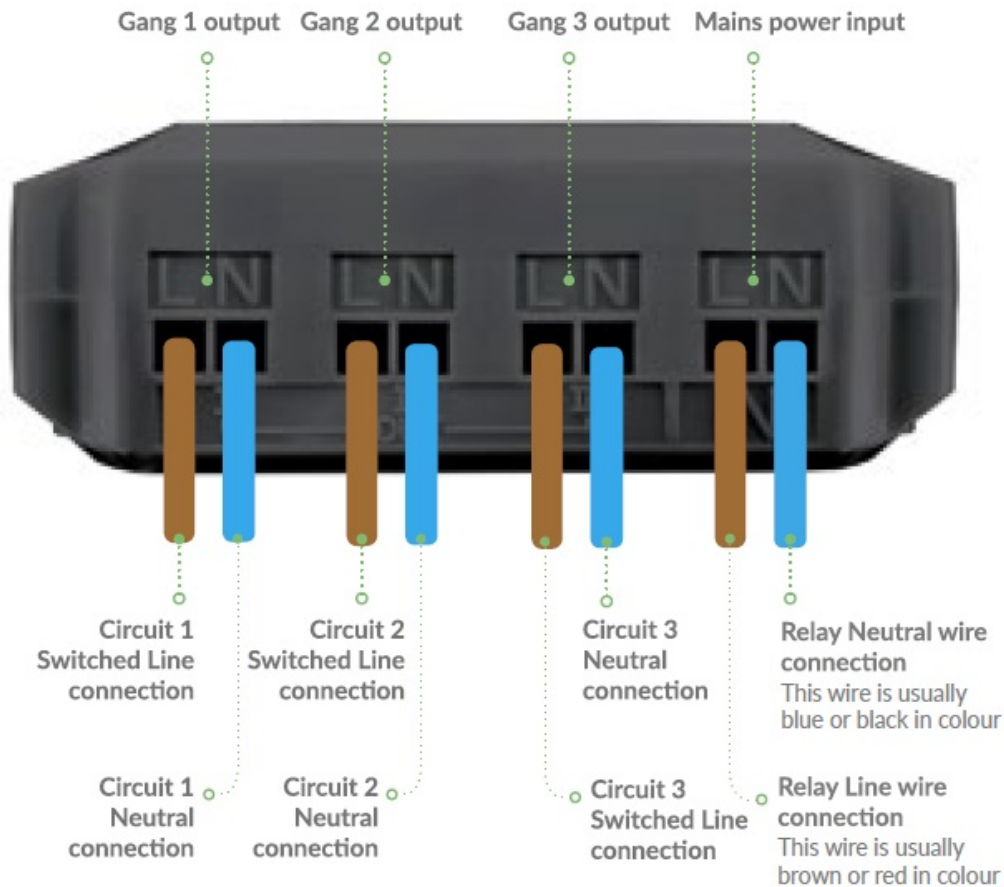


- Using the App, press the button to link to the device (the App link to instructions will guide you through this). The indicator on the Relay will flash to confirm that it is now linked. device



Unlinking the Relay (clear memory)

To unlink the Relay, enter linking mode by hold down any of the 3 main buttons until the LE flashes. Release the button, then hold it for second time until the LED flashes red to confirm that the memory has been cleared.



Linking the Relay & other functions

Firmware updates

Firmware updates are over-the-air software improvements that keep your device up to date as well as providing new features. Updates can be approved from the App before being implemented, and generally take 2-5 minutes. The LED will flash cyan in color during an update. Please do not interrupt the process during this time.

Error reporting

A permanently flashing red LED indicates that a software or hardware error has been encountered. Press the main button. If the error light persists, Lightwave reset the device. please contact www.lightwaverf.com/support. support via







Energy Monitoring

Similar to Lightwave Smart Sockets, the Smart Relay can monitor the energy usage of electrical devices that are connected to each independent circuit. The data for each circuit is then displayed in the Lightwave App. To view the energy data display, navigate to the relevant device in the App, and turn your smartphone or tablet through 90 degrees to landscape view.

Locking the Relay

Each gang of the Smart Relay can be locked using the App so that the manual buttons will not operate any of the circuits. A locked relay is signified by a slow flashing magenta LED. To lock/ unlock the Relay, press the 'lock' button on the Smartphone App. Clearing the memory will remove the lock.

LED indicator light summary

-  Solid red (or user customized): off
-  Solid blue: on
-  Flashing cyan: firmware update in progress
-  Slow flashing red: Error
-  Slow flashing magenta: device is locked
-  Flashing blue & red: device is in linking mode

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Documents / Resources

	<p>Lightwave LP83 Gang Smart Relay [pdf] User Manual LP83 Gang Smart Relay, LP83, Gang Smart Relay, Smart Relay</p>
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References

-  [Lightwave – Smart Home & Home Automation with Lightwave](#)