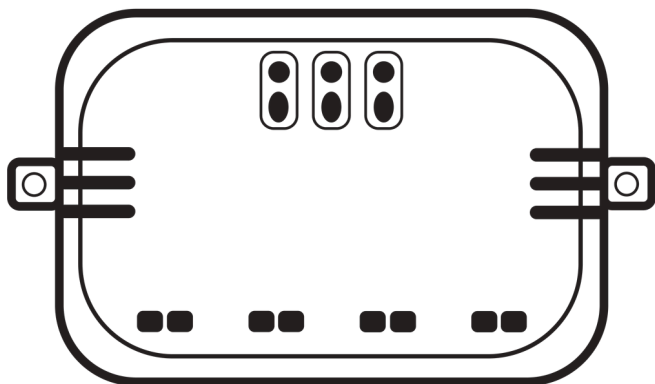


Lightwave



Installation Manual

Smart Relay (3 Gang)
(LP83 and L83)

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In this booklet you will find wiring diagrams and instructions on how to set up a Smart Relay (3 Gang) (LP83 and L83)

For further guidance click on the links below:

[Contact the technical support team](#)

[Contact a Lightwave Pro installer](#)

[Have a look at our website](#)

[Phone number: 0121 468 8987](#)

General Information

Main buttons

Hold to enter pairing mode
Click to operate the Relay

LED indicator light

The colour indicates the current position of the relay.

Red (or user customisable): circuit not connected

Blue: circuit connected



Mounting bracket

Terminal screws

RF frequency:
868 MHz

Voltage and Frequency:
230V ~ 50Hz

Switching:
Single pole (Line)

Terminals:
Max 2.5mm² wires

Standby energy use:
Less than 1W

Output rating:
3500W (total)

Housing:
Separate housing required

Input rating:
230V-50HZ

Usage and Setup:

- Can be used outdoors with a Waterproof Housing
- Controls garden lighting, pumps, gates, curtains, doors, extractor fans & more
- Avoid placing near large metal objects or water to ensure reliable wireless communication
- The Smart Relay (3 gang) lets you power and control up to three separate circuits remotely.

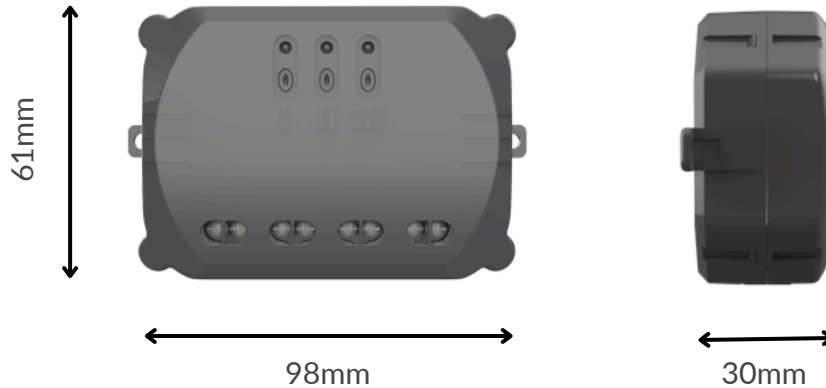
Loading:

- The total load across all three circuits must not exceed 3500W combined.
- Works with mains or low voltage systems
- Can also supply power to the circuit if needed

Warranty:

- 2-year standard warranty (from the date of purchase).
- A lifetime warranty on the device is available if you are a Lightwave Plus member.

Product Dimensions



Product Dimensions

Height: 61mm

Width: 98mm

Depth: 30mm

WARNING!

DAMAGE CAUSED BY INCORRECT LOADING, WIRING OR PHYSICAL DAMAGE WILL INVALIDATE YOUR WARRANTY

PLEASE NOTE:

- Please make sure to isolate the mains before you install your Smart Relay (3 Gang) (LP83 and L83)
- This device contains sensitive electronic components; ensure that wiring is in accordance with the manufacturer's instructions.
- Please make sure not to wire your relay while it is live, as it will cause the Smart Relay (3 Gang) (LP83 and L83) to fail.
- If in doubt, please contact our technical team, hire a Lightwave Pro installer, or consult a qualified electrician.

Preparing for Installation

Please follow the electrical wiring instructions carefully to ensure the product is installed safely.

Neglecting to follow these instructions could result in the loss of your 2-year warranty on the device.

Damage caused by incorrect wiring, any modifications, or physical damage will invalidate your warranty.

LightwaveRF Technology Ltd cannot accept responsibility for any loss or damage that may occur if the instruction manual is not followed correctly.

IMPORTANT: Any electrical installation must comply with building regulations, BS 7671 (IET wiring regulations) or local equivalent.

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

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

You will need:

- Choose a safe location for the relay
- Suitable electrical screwdrivers.
- Your link Plus Hub and smartphone.
- The Lightwave Link Plus App can be downloaded. (available on iOS & Android)
- It is important to isolate the mains before wiring the relay
- We recommend capturing photographs of your current wiring setup to assist you in properly installing the relay
- A Waterproof housing if installing outdoors

What is included in the box:

- Smart Relay (3 Gang) (LP83 and L83)
- Installation manual.

Installing a Smart Relay (3 Gang) (LP83 and L83)

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, technical team or Lightwave Pro installer.

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.

LightwaveRF Technology Ltd will not be held responsible for any loss or damage resulting from not correctly following the instruction manual.

PLEASE REMEMBER THAT LIVE ELECTRICITY IS DANGEROUS. DO NOT TAKE ANY RISKS.

Turn off the mains electricity:

It is important to make sure that you turn off the mains power supply to your existing power circuit at the consumer unit.

Location

Prepare a suitable location by installing the Smart Relay in an enclosure to reduce the risk of contact with live wires, ensure it meets safety requirements, and allow access so it can be paired to the Lightwave app.

Installing a Smart Relay (3 Gang) (LP83 and L83)

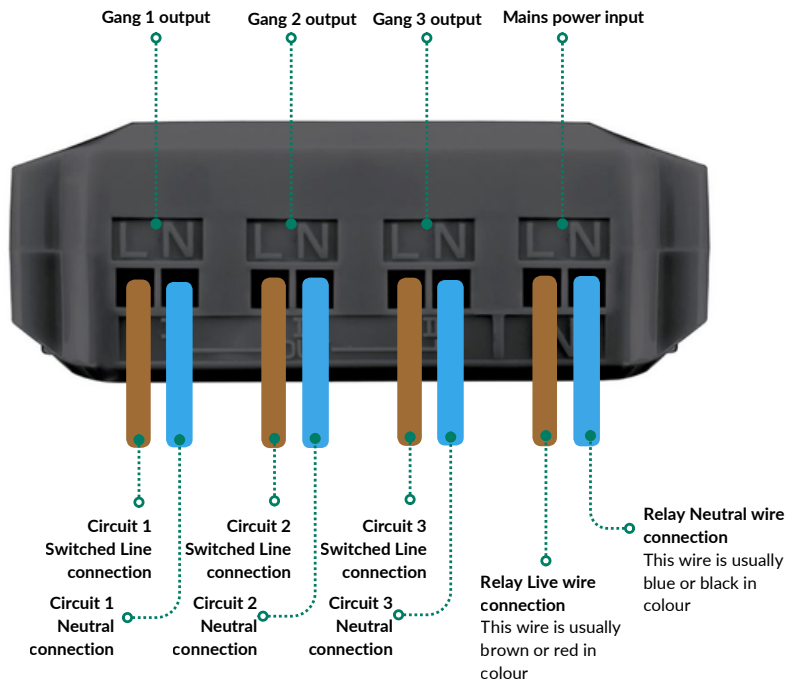
- The Smart Relay (3 Gang) can switch up to three separate circuits on and off independently.
- It must always be connected to mains power to operate.
- Please connect the live and neutral wires as shown in the diagrams.

Notes:

- Max total load: 3500W across all circuits.
- Wire colours may vary. If unsure, consult a qualified electrician or Lightwave Pro installer.

For more information, please see the installation video on how to install a Smart Relay.

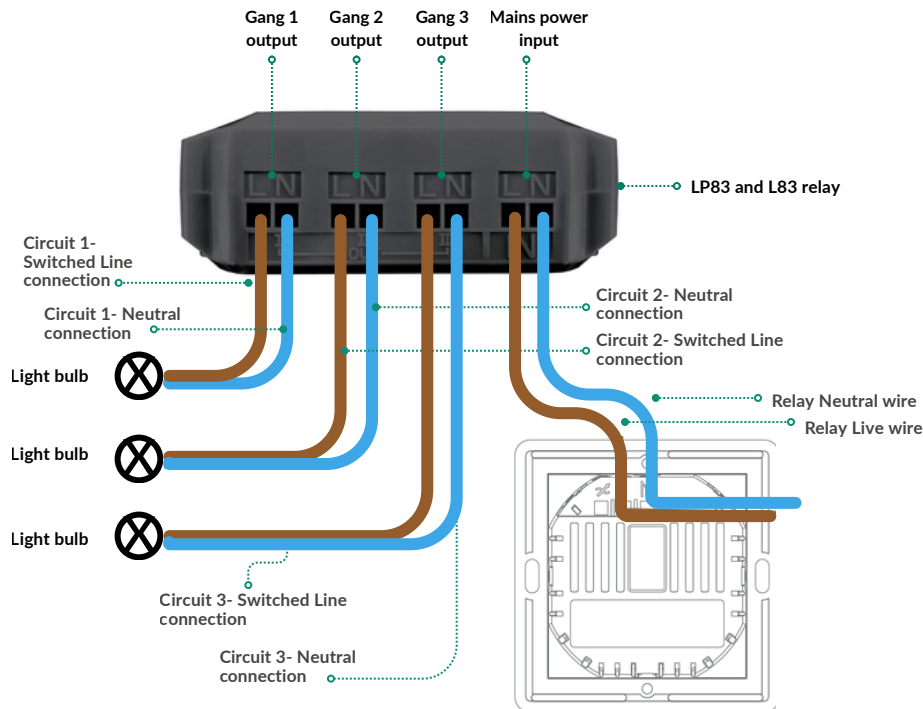
[Installation video of how to install a smart relay](#)



Installing a Smart Relay to a Lightwave dimmer switch

The relay can be controlled wirelessly using a smart dimmer. This is useful for non-dimmable lights, extractor fans, and higher wattage circuits. **Do not connect the dimmer and relay using the dimmers Switched Live (X) terminal** as this will cause the relay to lose power when the dimmer is turned off.

Diagram on how to wire up a relay to a dimmer switch:



Pairing and Grouping the Dimmer and Relay

After following the wiring diagram, the lights can only be controlled from the relay. To use the dimmer, add both devices to the Lightwave app. Pair each device individually, then create a group automation to link them. See pages 11 to 12 for pairing and page 13 for group automation setup.

How to pair a Smart Relay to the Lightwave App

Before you begin: Download the **Lightwave Link Plus App** from the **Google Play Store** or **Apple App Store**.

Adding a smart relay to the Lightwave Link Plus App:

Before you start, ensure the Link Plus Hub is positioned high and centrally in the house for the best signal.

- Open the app and tap the green plus (+) button at the bottom of the page. Then select the devices icon.
- Enter a name for your device in the grey box that says e.g. Porch Spotlights.
- Put the device into pairing mode by pressing & holding any of the three main buttons. While the device LED is flashing red/blue, tap Link in the app.
- The app will scan and pair with the device. Once linked, the LED will flash blue rapidly.
- After adding the device, please give it a name & assign it to a room in the app to make it easier to control and organise your devices.

For example, if you name a 3-gang relay "Main bedroom," the app will automatically discover all 3 channels. In the app, the 3 channels will be displayed as Main bedroom 1,2,3. You can then rename them as needed after they have been added.

Pairing mode:

- For a 3 gang relay, press and hold any button until the LED flashes red and blue alternately.

Issue with pairing the device:

- If the device exits pairing mode too soon, repeat the button press to re-enter pairing mode.
- If the LED flashes red only, the device's memory must be cleared with a master reset. (see below)

LED Indicator Lights

-  → Relay is On
-  → Pairing Mode
-  → Successful Pairing
-  → Memory is Full
-  → Relay is Off
-  → Relay is Locked
-  → Relay is updating

How to pair a Smart Relay to the Lightwave App

How to master reset the device:

- Press and hold any one of the buttons until the LED starts flashing red.
- Release the button, then quickly press and hold it again.
- The LED will flash faster red, then turn solid green to show it is resetting.
- Once the LED returns to solid red, the relay is ready to be paired again in the Lightwave app.

PLEASE NOTE:

When performing a master reset on the 3-Gang Relay, the memory will be cleared across all 3 channels automatically. There is no need to reset each channel individually.

For more information, please click on the links below:

- [How to add devices to the Link Plus App?](#)
- [How to put your devices into pairing mode?](#)
- [How do I master reset Lightwave devices?](#)
- [How to add your dimmer switches to the Lightwave app](#)

LED Indicator Lights

-  → Relay is On
-  → Pairing Mode
-  → Successful Pairing
-  → Memory is Full
-  → Relay is Off
-  → Relay is Locked
-  → Relay is updating

How to Create a Group Automation for a Dimmer Switch and Relay in the Lightwave App

Please ensure that both the dimmer and relay have been added to the Lightwave app and named accordingly, so you can then create a group automation to allow them to communicate with each other wirelessly.

How to Create a Group Automation:

- Log in to your Lightwave app using your account details
- Press the green plus (+) button at the bottom of the screen
- Select Automations
- You will then see a list of automation types. Please select Group
- You will be taken to a new screen asking you to choose a group type. Please select Switch, as this creates a simple on and off automation
- You will now be shown your rooms and devices. Please select the dimmer switch and the relay that you would like to link together. Each selected device will highlight orange to confirm it has been chosen
- Once you have selected all required devices, press the next button (top right hand corner)
- You will now see a grey box (for example “Evening Lights”). Please select this box and enter a suitable name for your automation, such as “Landing light”
- After naming the automation, press done (top right hand corner) to save it

You have now successfully created a group automation.

For more information, please click on the link below:

[How to set up a “GROUP AUTOMATION” Set up a Dimmer to wirelessly control a Relay or Socket](#)

[How to put your devices into pairing mode?](#)

[How to add devices to the Link Plus App](#)

Creating Automations

- Using the Link Plus and Lightwave App, you can create custom automations for the relay
- As long as the Link Plus Hub is still connected to power, your automations will continue to work even if you lose your internet connection.
- You need internet connection to create the automations.

Types of automations you can create with a Smart Relay (3 Gang) (LP83 and L83).

-  **Timer =** When you would like a device to operate at a set time and on certain days.
-  **Schedule =** It is recommended to use a schedule when you would like a device to operate certain times throughout the week and on specific days.
-  **If-Do =** This automation triggers another action. For example: when one light switches on, all lights in the house turn on.
-  **Group =** This can be used to make multiple devices 'copy' each other. Useful for controlling many devices in the same location by only interacting with one of them.
-  **Do =** Can be used to create moods/scenes. It works on-demand only, so requires execution via the Link Plus App or via Google Home, Apple Home or Alexa.
-  **Simulated Occupancy =** This can be used to schedule your lights to come on at random times throughout the day when you are not at home.

For more information, please click on the link: [Introduction to Automations](#)

Troubleshooting

If your Lightwave relay isn't behaving as expected, the steps below cover the most common issues and how to resolve them.

Device not linking to the app

- Check the device hasn't been added to the default room (if no room is selected, it goes to the top room on your rooms list automatically).
- Make sure the device is within close range of the Link Plus hub.
- If the LED flashes red when pairing, the device memory is full and will need clearing before it can be added.

Helpful Guides:

[Why Won't My Devices Pair to the Link Plus App?](#)

[Where is the best place to position my Link Plus Hub?](#)

Linked but not working

If the device appears in the app but doesn't respond, it may be paired as a Connect Series device.

What to try:

- Delete the device from the app.
- Clear the memory of the device.
- Put it back into pairing mode.
- Re-add it as a Smart Series device.

Helpful Guides:

[How to put your devices into pairing mode?](#)

[How to delete a device from the Lightwave Link Plus app?](#)

[How to add devices to the Link Plus App](#)

Troubleshooting

● Flashing red LED light when pairing

A flashing red LED means the device memory is full, usually after a failed pairing attempt.

To clear the memory:

- Press and hold any of the three main buttons on the relay.
- When the relay flashes red, release the button, then quickly press and hold it again.
- The relay will flash red more rapidly, then turn solid green—this indicates it is resetting.
- Once the relay returns to solid red, it is ready to be re-paired with the Lightwave Link Plus app.

Helpful Guides:

[How do I master reset Lightwave devices?](#)

● Flashing purple light

A flashing purple light means the device is locked.

To unlock it, open the Lightwave app, select the device, go to the lock option, and tap the lock icon.

Helpful Guides:

[How to Use the Lock Feature to Disable Hardware Controls?](#)

Feedback



We've just launched our new Lightwave installation manuals and would love to hear what you think!

Your feedback helps us improve our guides and provide better support, whether it's something you liked or something we could make clearer. It only takes a few minutes and really makes a difference.

[Please click here to share your feedback](#)

Thank you for helping us improve your Lightwave experience.