

Smart Relay with Switch Sense Input (LP81)

**^**√ Lightw<sub>√</sub>e

Preparation

#### Installation

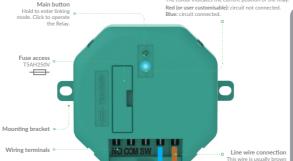
### You will need



#### Applications

#### Loading

#### Range



#### Specification

Terminal screws

terminal screw heads

Flip down cover to expose

RF frequency: 868 MHz Input rating:

Output rating: 700W Standby energy use: Less than 1W

Device class: 0 (requires housing) Warranty: 2 year standard warranty

#### LED indicator light

The colour indicates the current position of the relay.

#### Help video & further guidance

#### Environmentally friendly disposal

#### **EU Declaration of Conformity**

Product: Smart Relay with Switch Sense Input Model/Type: LP81 Manufacturer: LightwaveRF

Address: The Assay Office, 1 Moreton Street.

#### Reference and date:

Signed for and on behalf of:

Date of Issue: February 2022 Name: John Shermer Position: CTO





or red in colour

Neutral wire

connection

This wire is usually blue or black in colour

www.lightwaverf.com/product-manuals

#### 1.1 Prepare a suitable location

#### 1.2 Turn off the electricity supply

#### 1.3 Connect to mains power

#### Connect the circuit

Switched connection

Connection to the

The Smart Relay can be used to provide up to 700W of mains powered switching OR separate volts free switching for circuits not requiring additional mains power. The Relay latches between NO and COM. Follow the instructions below

#### 1 Adding mains voltage to a circuit (A)

In this case, mains voltage is 'iumped' from the main incoming line feed to the COM terminal by the addition of a connecting 'jumper' wire. Mains power can now be used to drive the single circuit illustrated in diagram A.

> Line wire connection This wire is usually

brown or red in colour

Neutral wire connection This wire is usually blue or black

#### 2 Switch sense (B) In addition this device has a "switch sense" terminal

(diagram B) that can detect the 'on' or 'off' position of an external switch such as a normal light switch. The action of the external switch can then operate the internal relay and / or be detected by the Link+ to trigger another device or devices or an automation. Any switch or circuit connected to the "switch sense"

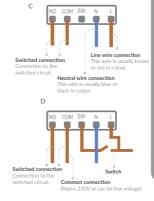
#### 4 Switch Sense (D)

input must be suitable for "230V AC" mains power. The 'switch sense' relay output configuration can be 230V mains (B) or volts free low voltage output (D).

# Load Common connection

#### 3 Switching a single circuit (C)

Use this configuration to switch a single circuit (can be low voltage) that does not require mains power to be provided from the Relay's line (L) and neutral (N) terminals.



## Linking the Relay & other functions







#### Unlinking the Relay (clear memory)

#### Firmware updates

#### Error reporting

www.lightwaverf.com/support.



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