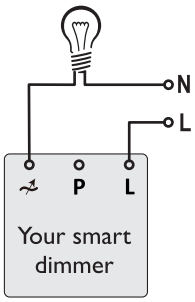
1-way Smart Dimmer Switch

WARNING Never take risks with electrical safety. Always disconnect the mains power before beginning any electrical work and test that it is isolated - it is NOT enough just to turn off the light switch. Electrical products must be installed in accordance with IET regulations (BS 7671). If you are in any doubt, always consult a qualified electrician or an experienced person registered with an electrical Competent Person Scheme. Further information is available online or from your Local Authority. If the lighting circuit is not protected by a Residual Current Device (RCD) then the installation should be carried out and tested by a qualified electrician. If necessary, use a suitable stepladder, but first read the useful advice given by the Health and Safety Executive. Visit www.hse.gov.uk and search for 'using stepladders'.

Your smart dimmer switch

Your smart dimmer switch supports LED lamps (that are specified as being dimmable) as well as conventional tungsten/incandescent lamps. Your dimmer supports total lamp loads between 10W and 250W. Do not connect more than 20 LED lamps (even if the total power draw is less than 250W).



As well as operating like any traditional wall dimmer switch, your dimmer can also be linked to smart home systems such as Philips® Hue™, Apple® HomeKit™, Amazon® Alexa™ or Google® Assistant™. This will allow you to also control the dimming by voice command or a smart device app.

Your dimmer has three terminals. You need to connect the live mains feed (brown or red wire) to the **L** terminal and the wire from your lamp(s) to the ⏦ terminal. The earth connection is not shown but is essential. A clever feature of your smart dimmer is that it works without needing a neutral wire (which competing models often do). Neutral wires are not usually available within traditional light switch recesses.

*IMPORTANT: This product must be installed in accordance with local building regulations. Your smart dimmer is a similar size to a standard single-gang light switch and requires a wall/pattress box with an internal depth of at least **35mm**. The current rating of the fuse/circuit breaker that supplies your smart dimmer must not exceed 10A.*

To install your smart dimmer

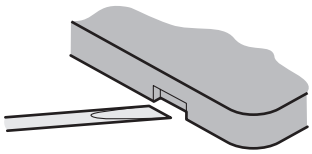
IMPORTANT: If you are in any doubt, STOP and seek professional help. Do not proceed unless you are sure.

1 Ensure that the mains supply to the circuit is isolated. Double check that all channels are dead.

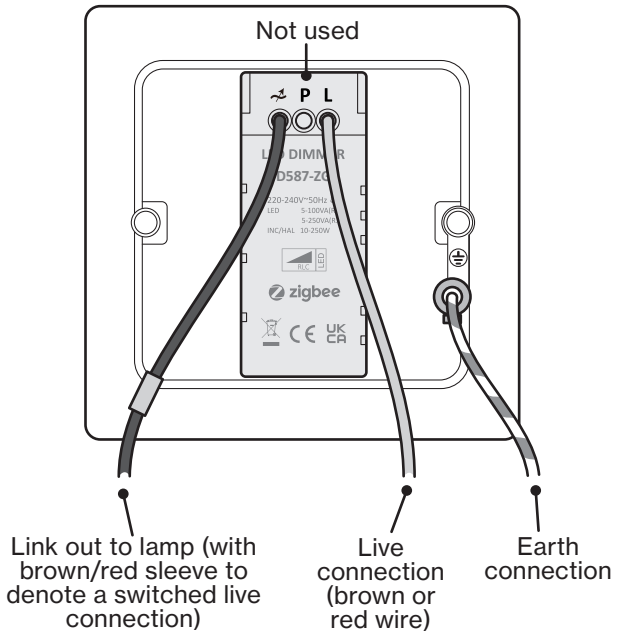
2 Remove the two wall screws that are securing the existing switch or dimmer and take a quick photo of its connections.

3 Disconnect the wires from the existing switch or dimmer and remove it from the installation.

4 (If the cover is already fitted to your new dimmer switch), carefully insert a small flat blade screwdriver into one of the base slots to prise off the front cover.



5 Connect the wires to your new dimmer switch:



6 Ensure that a valid protective earth connection is made to the terminal on the side of the rear panel. Ensure that the bare copper earth connection has a green/yellow sleeve to fully isolate it from the other connections. Check that all screw terminals are properly tightened and that no bare wires are visible.

7 Secure the dimmer panel in place.

8 Place the front cover onto your dimmer panel and then fit the supplied knob.

9 Restore power to the circuit and test your new dimmer.

To use your dimmer

- Press the knob to switch the light on and off.
- Rotate the knob clockwise to increase brightness.
- Rotate the knob anti-clockwise to decrease brightness.
- To use your dimmer with your smart home system, please see the details overleaf.

Pairing your dimmer with a smart home system

Before you can begin controlling your new dimmer by voice or app, you need to first pair it with a smart home hub, such as Philips® Hue™ Bridge. These instructions assume that a smart home hub is installed and is within wireless range of your new dimmer.

1 Switch on your new dimmer by pressing and releasing the knob. *Note: Sometimes it can be useful to reset your new dimmer before attempting to pair it - please see details below.*

2 Put the smart home hub into discovery or pairing mode. The way to do this will vary from system to system, so please check the instructions for your smart home hub.

3 Now also put your new dimmer into pairing mode:
   - Press and release the knob...
   - ...then immediately press and hold the knob down until the connected lamp responds: by flashing off and then on (twice) to show that it's ready to be discovered.

4 After a short period of time (some systems may take up to a minute), your dimmer should be discovered by the smart home hub and will be called *'Dimmable light 1'.*

5 You can now fully integrate your new dimmer into the smart home system by perhaps changing its name and including it within a group of other controlled devices. The precise way to do this will depend on the smart home hub, so please check their instructions.

Tips and tricks when pairing

- *Apple® HomeKit™ and Philips® Hue™*: If necessary, reset the Hue Bridge. Pair your new dimmer with the Hue Bridge first (left) via the Philips app. Then link the Hue Bridge with Apple Home:
  - In the Apple Home app, tap '+' and then 'Add Accessory'. Scan the HomeKit QR code (or enter the digits) of the Hue Bridge and select it in the list, or
  - In the Hue Bridge app, tap 'Settings' and then 'HomeKit & Siri'. Tap 'Pair bridge' and create a new home. Scan the HomeKit QR code (or enter the digits) of the Hue Bridge and select it in the list.
- *Amazon® Alexa™*: The following Echo devices have built-in smart home hubs: Echo 4th Generation, Echo Plus, Echo Show 10 (except 1st Gen), Echo Studio. Other Echo devices may need to use an additional hub, such as *Philips Hue*.
  - Add your Echo device to your Alexa app: Choose local wifi, go to 'Devices', choose 'Echo & Alexa'> 'Add a Device'>'Amazon Echo'>'Echo, Echo Dot, Echo Plus and more'. Plug in your Echo and press it to setup mode (orange light). When your Echo device is paired with the app, add your dimmer to Echo: Say "Alexa, discover my devices". Place your dimmer in pairing mode (left). When found, Alexa should say: "I found the first light". Follow the instructions from your Echo.
- *Google® Home™*: If necessary, reset the Hue Bridge. Pair your new dimmer with the Hue Bridge first (left) via the Philips app. Then link the Hue Bridge with Google Home:
  - In the Google Home app, tap 'Add device'. Tap 'Works with Google' and choose Philips Hue from the list that is shown. Follow the on-screen instructions to link the Hue Bridge to the Google Home app and also the Nest at the same time.

Changing optional settings on your dimmer

Your new dimmer has some optional settings which you can use to adjust its behaviour, if required.

Resetting your dimmer

You can reset your new dimmer to remove any previous pairing with a hub, in preparation for pairing with a new device.

To reset your dimmer

1 With the light already switched on, in quick succession press and release the knob four times...

2 ...then immediately press and hold the knob down until the connected lamp responds: by flashing off and then on (five times) to show that it has reset itself.

Minimum dimming level

If required, you can set a minimum dimming level so that when the knob is turned all the way anti-clockwise, the light will not dim down all the way to zero. Also, if you experience flickering or occasional brightness fluctuations, use this method to restore normal operation:

1 With the light already switched on, in quick succession press and release the knob three times.

2 The connected lamp will respond by flashing off and then on (three times) to show that it is ready to set the minimum dimming level.

3 Turn the knob until the light is dimmed to the required minimum level.

4 Press and release the knob to save your new minimum dimming level. The light will flash off and then back on once to confirm.

Dimming types

Your new dimmer can control either conventional tungsten/incandescent lamps or LED lamps (that are specified as being dimmable). To support both types correctly, your dimmer has two dimming modes:

- *Tungsten mode*, which gives best results for conventional tungsten/incandescent lamps, or
- *LED mode*.

Note: When supplied, your dimmer is already set to LED mode. If the wrong dimming mode is used with the other type of lamp, don't worry as it will not harm the lamp or the dimmer in the short term, however, LED lamps do not dim smoothly when used with Tungsten mode.

To change the dimming mode for tungsten/incandescent lamps

1 With the light already switched on, in quick succession press and release the knob five times.

2 The connected lamp will respond by flashing off and then on (five times) to show that it has changed to Tungsten mode.

To return to the dimming mode for LED lamps

- With the light already switched on, in quick succession press and release the knob four times.
- The connected lamp will respond by flashing off and then on (four times) to show that it has changed to LED mode.

Declaration of conformity

In accordance with EN ISO 17050-1:2010
(This declaration of conformity is issued under the sole responsibility of the manufacturer)

Supplier:	Dowsing and Reynolds Ltd, Unit 7 Hunslet Trading Estate, Severn Road, Hunslet, Leeds, LS10 1BL
Manufacturer of:	Zigbee dimmer switch module
Date of issue:	20/03/2023
Model Number:	D587-ZG
Product Type:	Dimmer Switch
Protocol:	IEEE 802.15.4
Supply voltage:	AC 220-240V, 50Hz

The object of the declaration described above. Is in conformity with the relevant Union harmonization Legislation. Directive 2014/53/EU. This certificate attests that all provisions concerning the assessment and verification of performance in the standards.

Directive 2014/53/EU	**Standard(s) Applied in Full**
Article 3.1a (Safety)	EN 60669-1:2018 EN 60669-2-1:2004+A1:2009+A12:2010 EN 62311:2008
Health Safety	
Article 3.1.b (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Article 3.2 (Spectrum)	ETSI EN 300 328 V2.2.2

As per Annex III (Module B) for the performances set out in this certificate, are applied.

Name: Tony Green

Signature:

Signatory function: Operations Director

Date: 04/04/2023