INSTRUCTIONS FOR VARILIGHT V-PRO DIMMERSWITCHES

OVERVIEW

The **VARILIGHT V-Pro** programmable dimmer operates on 230VAC 50Hz and complies with European Safety Regulations (**BSEN 60669-2-1**) when used in lighting circuits containing MCBs rated at 6A, 10A or 16A .

The default setting is trailing-edge Mode 1, suitable for most dimmable LEDs and recommended lighting types.

- Mode 3 (trailing-edge) may improve performance for some dimmable LEDs.
- Mode 2 (simulated leading-edge, not TRIAC) suits certain LED type

See "Programming & Optmising.." (overleaf) to change modes or adjust the minimum or maximum brightness.

At installation, ensure all lamps **remain visibly on** at the lowest brightness setting to comply with the **UK EcoDesign Regulation 1194/2012**.

LOADING

Do not exceed the maximum load per gang stated on the product label.

Suitable for:

- Dimmable LED lighting
- Quality dimmable electronic low-voltage transformers

Not suitable for:

- Non-dimmable LED, fluorescent lamps or tubes
- Wire-wound/toroidal transformers
- Electric motors (e.g. fans)
- TRIAC dimmable drivers (use V-Com dimmers instead)

Transformers:

- Match transformer rating closely to lamp load (e.g. 50–70VA for a 50W bulb).
- Calculate the load on the dimmer using transformer VA rating, not bulb wattage.

Overload Protection:

If overloaded, the dimmer will switch itself off until the load is corrected. If an overload occurs, change the transformer, reduce the lighting load per circuit, or use a higher-rated dimmer. A total short-circuit may cause permanent damage.

LIFETIME GUARANTEE

Varilight will repair or replace faulty units due to defective materials or workmanship, provided that:

- The unit has been installed correctly, used only with compatible loads, and not overloaded or run on an incorrect power supply.
- The dimmer module has not been tampered with. Faulty modules from multi-gang units may be removed for servicing without affecting other modules.
- The unit is securely packaged and returned with proof of purchase, fault details, and load type/wattage.

This guarantee states Varilight's entire liability, which does not extend to consequential damage or installation costs or lamp/dimmer incompatibility issues. This guarantee does not affect your statutory rights.

Contact: +44 (01293) 223333 or varilight.co.uk/help

Guarantee Registration Number: MJP120_03

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VARILIGHT® V-PRO™

MJP120

2-Way Push-on Push-off Programmable **LED Dimmer** Module Kit **0-120W**

- **Best LED Compatibility** out of the box
- **Adjustable minimum** and maximum brightness
- Choice of **dimming modes**
- **Child lock** feature

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For FAQs, please visit: **www.varilight.co.uk/faqs**

FITTING & WIRING YOUR DIMMER

- Safety First - Switch off power at the mains before starting.
- If in doubt, consult a qualified electrician.

Removing the Old Switch

1. Unscrew the old switch plate and note the position of each wire.
2. Disconnect the wires, keeping any grouped wires together.

Preparing the Wall Box

Make sure the wall box is free from plaster, debris, or protruding screw heads and remove or flatten any extra fixing lugs if present.

- Minimum wall box depth:
  - 25mm for Classic plates
  - 35mm for Ultraflat or Screwless plates

Wiring the New Dimmer

Your VARILIGHT V-Pro dimmer works with 1-way or 2-way circuits and uses push on/push off for switching with a rotary action for dimming. Each module has three screw terminals: C, L1, and L2. Wiring diagrams can be found on the reverse.

1-Way Circuits are where one switch controls one light (or group of lights).

- Connect one wire to C.
- Connect the other wire to L1 (either way round).
- L2 is not used.

2-Way Circuits are where two switches control the same light(s) – e.g. at the top and bottom of stairs.

- Replace only one switch with a dimmer to avoid flicker.
- The wire(s) in the common terminal of the old switch go into C.
- The other two wires go into L1 and L2 (either way round).

If you have **multiple dimmers in one plate**:

- Treat each set of three terminals as a separate dimmer.
- If on your old switch terminals were linked between gangs, use a short wire to link the same terminals on the dimmer.

Final Steps

- For metal faceplates, connect the earth wire to the marked earthing terminal.
- Fit the dimmer into the wall box without overtightening.
- Avoid trapping wires behind the unit.
- Restore power and test the dimmer.

Important - Disconnect the dimmer before **insulation resistance testing** to avoid damage which will void the guarantee.

Programming & Optimising Your V-Pro Dimmer

Programming Overview

Your V-Pro dimmer is designed to work out of the box. However, you can **fine tune the dimmer to suit your lights** using the instructions written below. You can also scan the QR code for **video instructions →**

Adjusting the Minimum Brightness

If your lights **flicker at low brightness**, increasing the minimum can help. If they are **too bright at the lowest setting**, try reducing the minimum.

1. Turn the **dimmer to minimum** (fully anticlockwise).
2. Toggle the lights **OFF–ON once per second ×3 times**.
3. The lights will **"step" up and down** to confirm you are in configuration mode.
4. Turn the knob **fully clockwise** to begin adjustment.
5. Slowly turn down and up until you find your **preferred minimum brightness**.
6. Leave the knob in this position – **after 3 seconds** the setting will save automatically.

Changing the Driving Mode

Some LED lights will occasionally perform better in a different mode:

- **Mode 1** – Default trailing-edge (most LEDs).
- **Mode 2** – Simulated leading-edge (certain LEDs).
- **Mode 3** – Alternative trailing-edge (some LEDs).

1. Set knob **to maximum**, switch the lights **OFF–ON once per second 3 times** (6 presses total) to activate configuration mode.
2. Once in configuration mode, select:

- Mode 3 - **Turn fully anticlockwise, then fully clockwise** and wait for 2 seconds
- Mode 2 - **Turn fully anticlockwise** and wait for 2 seconds

3. Lights will flash to confirm:

- **Once** = Mode 1
- **Twice** = Mode 2
- **Three times** = Mode 3

*Note: If **Mode 2** draws too much current, the dimmer will revert to **Mode 1 automatically**.*

Child Lock

Prevents **accidental entry** into programming mode.

1. Set knob to **maximum**, turn **ON–OFF twice**.
2. Set knob to **minimum**, turn **ON–OFF twice**.
3. Set knob to **maximum**, turn **ON–OFF–ON**.
4. Lights will step to confirm lock is enabled.

(Repeat to disable.)

Drive Function

If some LEDs **won't turn on at low brightness**, the Drive setting can give them a **short boost at start-up**.

1. Set knob to **minimum**.
2. Turn **ON–OFF once per second**.
3. Set knob to **maximum, ON–OFF again**.
4. Set knob to **minimum, turn lights ON**.
5. In configuration mode, **increase until lamps switch on**.
6. Leave for **3 seconds** to save.

(To disable Drive, **repeat the process** but skip step 5.)

Adjusting the Maximum Brightness

If lights **flicker at high brightness**, lower the maximum. If they aren't bright enough you can **increase the maximum output**.

1. Set the dimmer to **maximum** (fully clockwise).
2. Turn lights **ON–OFF once per second**.
3. Set the knob to **minimum**, then **ON–OFF** again.
4. Return the knob to **maximum** and turn lights **on.**
5. In configuration mode, **turn the knob fully anticlockwise** to begin adjustment.
6. **Slowly turn** until you find your **preferred maximum brightness**.
7. Leave for **3 seconds** to save.

Resetting to Factory Defaults

Restores Mode 1 and the original brightness settings.

1. Set knob to **maximum**, toggle **OFF–ON ×3**.
2. Wait at least **3 seconds**, repeat **OFF–ON ×3**.
3. Lights will **fade off** – the reset is complete.

Wiring Diagrams

Figure 1
1-Way Wiring

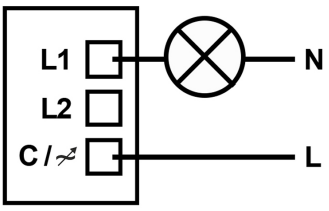


Figure 2
2-Way Wiring

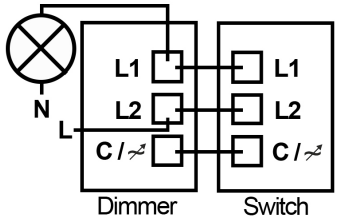
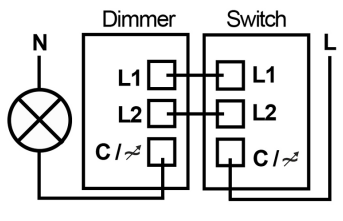


Figure 3
Alternative 2-Way Wiring



Only use one dimmer per circuit