

# INSTRUCTION LEAFLET FOR V-PLUS DIMMERSWITCHES



## OVERVIEW

Thank you for choosing a VARILIGHT V-Plus series dimmerswitch, designed for all incandescent lighting circuits (including mains or low voltage halogen). Use only on an electricity supply of 230 volts AC.

V-Plus dimmers are recommended for use with halogen loads. The soft-start feature gently increases the power supplied to a lamp when the dimmer is first turned on, allowing the lamp to warm up gradually, reducing failures caused by stress on halogen lamps when they are switched on.

**IMPORTANT:** Read ALL sections below before installing this dimmerswitch.

This dimmerswitch complies with **European Safety Regulations** (IEC 669-2-1 or BSEN 60669-2-1) when used in lighting circuits containing MCBs (miniature circuit breakers). These can be rated at 6A, 10A or 16A (preferably 6A for lighting circuits). Your guarantee is not affected if you have an older lighting circuit protected by fuse wire links

**Doyle & Tratt Products Ltd**, Carylls Lea, Faygate, Horsham, W. Sussex, RH12 4SJ, UK. +44 (01293) 223333

**Varilight Europe Kft, 2600 Vác**, Althann Mihály Frigyes utca 2, Hungary.

## LOADING

Maximum loads for V-Plus dimmerswitches;

**Always observe the recommended maximum load.**

Lighting Type	V-Plus Standard Dimmer Push On/Off			
	1-Gang	2-Gang Per Gang	3-Gang Per Gang	4-Gang Per Gang
Incandescent	As per rating on dimmer	As per rating on dimmer	As per rating on dimmer	As per rating on dimmer
Main Halogen				
Low Voltage Halogen				
Eco Halogen				

### THIS SWITCH IS SUITABLE FOR

- ✓ Mains voltage incandescent GLS or candle-shaped bulbs
- ✓ GU10 or similar good quality mains halogen bulbs
- ✓ Good quality dimmable low voltage lighting transformers

### THIS SWITCH IS NOT SUITABLE FOR

- \* Fluorescent bulbs and tubes
- \* Fans
- \* LED bulbs

### TRANSFORMERS

When using this dimmerswitch to control low voltage lighting transformers, choose transformers with a maximum rating close to the rating of the bulbs they supply (eg. Use a 60VA transformer to control a 50W low voltage bulb).

Load at 75% of the maximum load specified on the product label **adding the VA ratings of the transformers, not the wattages of the bulbs.** Do not overload the transformers.

Note: Certain transformers may not behave according to their power rating when used with a dimmer. An overload will always result in the safety features of this dimmerswitch turning down the brightness. If this happens and you have followed these instructions then it is likely that your transformers present a bigger load. In this case, change your transformers to ones which do not appear as an overload, remove one (or some) transformer(s) from the circuit or choose a higher rated dimmer instead.

### OVERLOADING AND UNDERLOADING

Dimmers must not be overloaded or underloaded. Check the label on the back of your dimmerswitch for the maximum ratings of each module and adjust this if necessary according to the load type (see above). The minimum loads for each are also shown on the label.

[www.varilight.co.uk](http://www.varilight.co.uk)

Please **record the batch number** printed on the side of the plastic moulding on the rear of the product. This will assist us in providing any technical support you may require.

**I\_P**

Reg. IP007

BATCH NO:

**INSTALLERS** – Please leave these instructions with your customer for future reference.

## LOADING (Continued)

### OVERLOAD PROTECTION

Your dimmerswitch is protected against overload. If an overload occurs it will automatically turn the brightness down or turn off until the overload is removed and the dimmerswitch is switched off and then switched back on again. If the dimmerswitch receives a total short-circuit it may cease to function. (In this case return the unit to our service department at the address below and not to your supplier. The service department will repair your dimmerswitch free of charge. See "Guarantee".)

## FREQUENTLY ASKED QUESTIONS

For FAQs, please visit: [www.varilight.co.uk/faqs](http://www.varilight.co.uk/faqs)

## GUARANTEE

In case of any defect, return the dimmer to our service department. Varilight undertakes to repair or replace, at its discretion, goods which have become defective within 10 years of purchase, solely as a result of faulty materials and workmanship, provided that:-

- a) The unit has been correctly fitted according to the instructions and has not been used with an incompatible load, fluorescent tubes, or overloaded beyond its rating, and has only been used on a 200-250V a.c. power supply.
- b) The dimmer module has not been tampered with or taken apart. However, for your convenience, it is perfectly in order to remove a faulty dimmer module from multi-gang dimmers by pulling off the knob and unscrewing the nut under the knob. You will then still have the remaining modules working whilst we service your faulty module.
- c) The unit is securely packed and safely returned to either address listed in the overview section above, together with a letter stating the guarantee registration number below, the date and place of purchase, your contact details and return address, the type and wattage of the lighting or other load being controlled and the details of the fault. This guarantee states Varilight's entire liability, which does not extend to cover consequential loss or damage or installation costs arising from a defective product. The guarantee does not apply to problems arising from any incompatibility between your lamps and the dimmer switch. This guarantee does not in any way affect the statutory rights of the purchaser and is offered so that you may have the benefit of our technical facilities.

In many cases products don't need replacing, so for further information and help with troubleshooting, see our FAQ page at [www.varilight.co.uk/faqs](http://www.varilight.co.uk/faqs), or contact our Customer Services by calling +44 (01293) 223333 or create a support ticket at [www.varilight.co.uk/help](http://www.varilight.co.uk/help).

**GUARANTEE REGISTRATION NUMBER: IP007**

**WARNING:** Do not apply products with metal faceplates directly to freshly plastered or damp surfaces as product may tarnish. If in doubt, use polythene as a temporary gasket to protect the product. Do not use masking tape on metal faceplates.

## FITTING YOUR DIMMER

Read the instructions below carefully. Incorrect installation may damage the dimmer beyond repair.

**In case of any doubt or difficulty consult a qualified electrician.**

1. Switch off at the mains, then remove the existing switch and disconnect the wiring from the switch terminals at the rear, taking note of the present wiring of the switch and the marking on the terminals. Where there are two or more wires together in the old switch, they must be kept together in the dimmerswitch.
2. Ensure that any wall box is free of plaster lumps or projecting screw heads. Dimmerswitches on single-sized plates can be fitted to wall boxes having 60.3mm screw fixing centres and those with double-sized plates to wall boxes with 120.6mm fixing centres. Most models can be fitted into a box with a minimum depth of 25mm. A box having 4 fixing lugs cannot be used without modifying it. The top and bottom lugs must be broken off or bent flat.
3. To connect the wiring for 1-way or 2-way circuits refer to the diagrams overleaf under the heading "Typical Lighting Circuits". Take care that no bare wires project out of the terminals. Keep wires together in a terminal if they were together in your old switch.
4. Dimmerswitches having a metal front plate must be earthed by means of the earthing point on the faceplate.
5. After connecting the wires screw the dimmerswitch gently into the wall box so that the front plate is not distorted or cracked. Do not trap the wiring between the rear of the dimmer and the back of the wall box.
6. Once installation is complete. Switch on the mains supply and switch on the dimmer, turning the control knob to give the desired light level.

A slight buzzing may be heard from the dimmerswitch in operation. This is quite normal.

**Important:** Disconnect the dimmer before carrying out insulation resistance testing. Failing to do so could damage a dimmer and make the guarantee invalid.

## 1-WAY, 2-WAY AND MULTI-WAY CIRCUITS

Your VARILIGHT V-Com intelligent dimmerswitch is suitable for 1-way or 2-way lighting circuits. It has a push on/push off action to switch and a rotary action to dim. There are 3 screw terminals per module.

### 1-WAY CIRCUITS

In 1-way lighting circuits each light is controlled by one switch. Your dimmerswitch should replace this switch. See Figure 1. Remove your old switch and copy the wiring configuration for your dimmerswitch. Connect wires either way round to the 'C' terminal and one of the 'L' terminals. The other 'L' terminal is not used in a 1-way circuit.

### 2-WAY CIRCUITS

2-way lighting circuits have two switches turning the same lights on and off from 2 different locations (eg. at the top and bottom of the stairs). You must only replace one of these switches with a dimmerswitch or the lights will flicker. See Figures 2 and 3 which show typical 2-way circuits. Remove your old switch and copy the wiring configuration for the dimmer.

The wire(s) fitted in the "common" terminal of the old switch should be fitted into the "C" terminal of the dimmerswitch. The wires fitted into the other two terminals of the old switch should be fitted either way round into terminals "L1" and "L2" of the dimmerswitch.

### MULTI-GANG DIMMERSWITCHES

To fit 2 gang (or 3 or 4 gang) dimmerswitches treat each group of terminals at the back of the unit as a separate dimmerswitch wiring them into the lighting circuits as described above. If required, one terminal from each dimmer module may be joined together with a short length of wire to copy the wiring configuration of the old switch.

