

DO NOT DISCARD THESE INSTRUCTIONS – PLEASE KEEP FOR FUTURE REFERENCE



www.varilight.co.uk

J_P

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.

Reg. 762M

For version M

BATCH NO:

VARILIGHT V-Pro Dimmerswitches

Thank you for choosing a VARILIGHT V-Pro intelligent programmable dimmerswitch. Use only on an electricity supply of 200-250 volts AC.

IMPORTANT: Read "Loading Advice" section overleaf before installing this dimmerswitch.

This product 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.

FITTING YOUR DIMMERSWITCH:

Read these instructions 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 dimmer.
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.

TYPICAL LIGHTING CIRCUITS

Your VARILIGHT intelligent trailing-edge 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

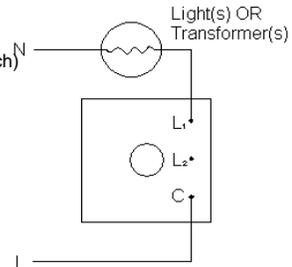
In 1-way lighting circuits each light is controlled by one switch. Your dimmerswitch should replace this switch. See Figure 1. Remove your old switch and copy the wiring configuration for your dimmerswitch. Connect wires either way round to the 'C' terminal and one of the 'L' terminals. The other 'L'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

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.

Typical 1-way Circuits

(For single dimmerswitches or each module of a multi-gang dimmerswitch)

Figure 1.
Using a 1 or 2-way Dimmerswitch



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.

Typical 2-way Circuits

(For single dimmerswitches or each module of a multi-gang dimmerswitch)

Figure 2. Using a 2-way Dimmerswitch.
Dimmer must replace only one of the 2-way switches.

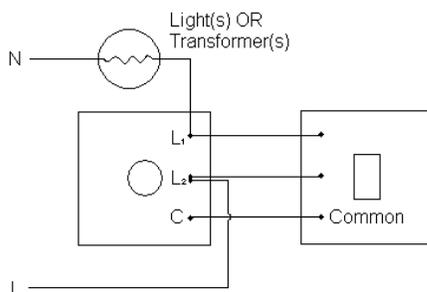
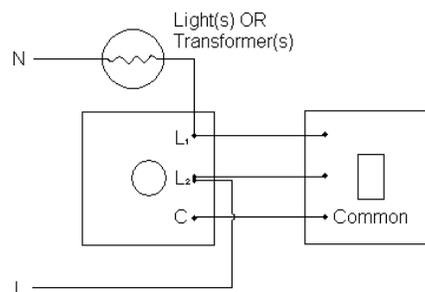


Figure 3. Using a 2-way Dimmerswitch.
Dimmer must replace only one of the 2-way switches



COMPATIBILITY AND LOADING ADVICE

THIS SWITCH IS **NOT** SUITABLE FOR

- x** Non-dimmable fluorescent bulbs and tubes;
- x** Wire-wound or toroidal transformers;
- x** Electric motors.
- x** Dimmable CFLs

THIS SWITCH IS SUITABLE FOR

- ✓ Mains voltage incandescent GLS or candle-shaped bulbs;
- ✓ Good quality dimmable electronic low voltage transformers (including those requiring trailing-edge control) [see "Transformers" box]; GU10 or similar good quality mains halogen bulbs;
- ✓ Most dimmable LEDs [see "Dimmable LEDs" box].

Always observe the recommended maximum load

[see "Overload Protection" box]

| Dimmer Series Lighting Type | V-Pro 1 Gang Maximum Load | V-Pro 2 Gang Maximum Load Per Gang | V-Pro 3 Gang Maximum Load Per Gang | V-Pro 4 Gang Maximum Load Per Gang |
|--------------------------------|---|---|---|---|
| Incandescent | 400W | 250W | 250W | 250W |
| Mains Halogen | 300W | 200W | 200W | 200W |
| Low Voltage Halogen | 300W | 200W | 200W | 200W |
| Eco Halogen | 300W | 200W | 200W | 200W |
| LED | See information in "Dimmable LEDs" box above right. | | | |

DIMMABLE LEDs

The minimum load per gang is 10W. Always choose LEDs that are "dimmable" and for the best performance choose dimmable LEDs from established brands. We cannot guarantee that all LEDs labelled as "dimmable" can actually be dimmed satisfactorily. The **maximum load** of dimmer should be **de-rated** for LEDs. See below or check www.varilight.co.uk/led for latest advice on loading.

Maximum and minimum loads will vary according to make and type of LED. Refer to LED manufacturer for specific loading information. If in doubt, use 2 to 10 lamps per gang (or 100W, whichever is lower).

TRANSFORMERS:

Use only with quality dimmable **electronic** transformers. For optimum performance choose VARILIGHT transformers. Do **not** use with wirewound or toroidal transformers.

To calculate load, add the VA ratings of the **transformers (not** the wattage of the bulbs). Choose transformers with a maximum rating close to their lamp load (e.g. Use a 50VA, 60VA or 70VA transformer to control a 50W low voltage bulb).

N.B. Certain transformers **may not behave according to their power rating when used with a dimmer**. An overload will result in the safety features switching the dimmer off. If so, change your transformer(s) (VARILIGHT transformer(s) recommended); or remove one (or some) transformer(s) from the circuit; or choose a higher rated dimmer.

OVERLOAD PROTECTION:

This dimmerswitch is protected against overload. If an overload occurs it will **automatically 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 overleaf.)

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 12 months 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:-

Service Department, Carylls Lea, Faygate, Horsham, West Sussex, RH12 4SJ (Tel. (01293) 851584) together with a letter stating the guarantee registration number below, the date and place of purchase, 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.

GUARANTEE REGISTRATION NUMBER: 762M