INSTRUCTIONS FOR VARILIGHT MULTI-POINT TOUCH DIMMERSWITCHES

OVERVIEW

Thank you for choosing a VARILIGHT V-Pro Multi-Point intelligent programmable tactile touch control dimmerswitch. Use only on an electricity supply of 230V 50Hz AC.

IMPORTANT: Read ALL sections below before installing this dimmerswitch.

V-Pro dimmers are set to run in trailing edge mode 1 by default. This versatile mode is suitable for most types of lighting, including many dimmable LEDs. It is also gentler on the load. Some lighting loads, including some types of LED, perform best with leading edge control. This dimmer can easily be run in leading-edge mode by following the "programming" instructions overleaf.

The Multi-Point master dimmer is suitable for 1-way circuits. For 2-way (or multi-way) circuits, use a Multi-Point master dimmer with one or more Multi-Point dimming slave units. Multi-Point master dimmers cannot be used in conjunction with conventional switches in a 2-way circuit. Use only on an electricity supply of 230V 50Hz AC. Multi-Point dimming slaves are tactile-touch control only.

This product complies with **European Safety Regulations** (IEC 669-2-1 or BSEN60669-2-1) 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.

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

LOADING

Maximum loads for V-Pro Multi-Point dimmers (please see www.varilight.co.uk for latest loading advice);

Always observe the recommended maximum load.

Dimmer Series / Lighting Type	V-Pro Multi-Point 1 Gang Max. Load	V-Pro Multi-Point 2 Gang Max. Load Per Gang	V-Pro Multi-Point 3 Gang Max. Load Per Gang	V-Pro Multi-Point 4 Gang Max. Load Per Gang
Dimmable LED	1 to 10 Dimmable LEDs (max. 100W) Check your LED lamps are suitable for use with dimmers that have a standby mode. A load regulator may be required, e.g. Varilight Glowfix			

THIS SWITCH IS SUITABLE FOR:

- ✓ Good quality dimmable electronic low voltage transformers (including those requiring trailing-edge control) [See "Transformers"]
- ✓ Most dimmable LEDs

THIS SWITCH IS NOT SUITABLE FOR:

- × Non-dimmable fluorescent bulbs and tubes
- × Wire-wound or toroidal transformers
- × Electric motors

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. However, if the dimmerswitch receives a total short-circuit it may be damaged beyond repair.

UK CA

www.varilight.co.uk

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

J_T

Reg. MPT007

BATCH NO:

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

LOADING (Continued)

TRANSFORMERS

Use only with quality dimmable **electronic** transformers. For optimum performance choose VARILIGHT 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 (eg. 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 dimmer turning itself off. If this happens, change your transformer(s) (VARILIGHT transformer(s) recommended); or remove one (or some) transformer(s) from the circuit; or choose a higher rated dimmer instead.

* If a transformer appears as a highly inductive load, e.g. Wire-wound or toroidal transformers, the dimmer will not work. To protect itself it will turn off within 1 second.

ADVICE ON CHANGING LIGHT BULBS

Always turn off the mains power when light bulbs controlled by your Multi-Point dimmers are replaced. If you change the type of light bulb then restore factory settings as described under "Programming".

FREQUENTLY ASKED QUESTIONS

For FAQs, please visit: 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 230V 50Hz AC power supply.

b) The dimmer module has not been tampered with or taken apart.

c) The unit is 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, or contact our Customer Services by calling +44 (01293) 223333 or create a support ticket at www.varilight.co.uk/help.

GUARANTEE REGISTRATION NUMBER MPT007

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 DIMMERSWITCH

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 "1-Way, 2-Way and Multi-Way 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 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.

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

OPERATION OF THE SWITCH

Using the Button on the Dimmer (Master Dimmer or Slave Unit)

The upper region of the button on Multi-Point dimmers (and slave units) is referred to as [Up] in the following instructions and the lower region of the button is referred to as [Down]. The following functions can be performed using the button.

A short press on either the [Up] or [Down] regions of the button will toggle the lights off or on to previous brightness setting.

Press and hold [Up] or [Down] will adjust the brightness up or down.

When the brightness reaches the level you require, remove contact with the button.

Double press [Up] to go straight to maximum brightness.

Starting with lights off, press and hold [Up] to begin brightening the lights from the minimum brightness level.

Starting with lights off, press and hold [Down] to recall the previous brightness and begin dimming the lights.

PROGRAMMING

Optimising Performance

[N.B. These functions are available from the **master unit only** and cannot be accessed from a slave unit]

1. This dimmer has 3 dimming modes. You may get a better dimming performance from your dimmable LED lighting by changing the mode.

- To change mode, press and hold [Up] until the lights have reached maximum and then continue to hold for 6 seconds. The lights will go off, then flash 1, 2 or 3 times to show the current mode. Press 1, 2 or 3 times on [Up] region of the button (lights flash each time) to change to mode 1, 2 or 3, then wait for a few seconds. The lights will flash 1, 2 or 3 times to show the new mode.

2. You may get a better dimming range from your dimmable LED lighting by changing the minimum brightness setting of the dimmer.

- To adjust the minimum brightness, press and hold [Down] until the lights have reached minimum and then continue to hold for 6 seconds. The lights will come on at the brightest possible minimum and show in 8 steps the available minimum brightness settings. You can then step through the available minimum brightness settings by pressing the [Up] and [Down] regions of the button. When you are happy with the setting, stop pressing for at least 4 seconds. The lights will go off, step up and down, then come on at the new minimum brightness to indicate the programming has been successful. (Continued in next column) →

3. Restore factory settings

- Press 6 times on the [Up] region of the button on the master dimmer (not possible from slave unit), about once per second, until the lights step up and down. Press the [Up] region of the button 6 more times. The dimmer will then fade to off to indicate that it has been successfully reset to factory defaults and then come back on.

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

In 1-way lighting circuits the light(s) are controlled by one switch. This dimmer should replace that switch. The live wire must be connected to the terminal marked "LIVE" and the "load" wire to the terminal marked "LOAD". To fit **2, 3 or 4-gang** dimmers treat each group of terminals at the back of the unit as a separate dimmer. You may also need a short length of wire to connect together the "LIVE" terminals if only one live wire is present. For **2-way** or **Multi-way** circuits (where the light(s) are controlled by more than one switch) use this dimmer and any number of VARILIGHT Multi-Point dimming slaves (total cable length from the master to the last slave should be no more than 50m) following the wiring diagrams overleaf. It is not possible to use a conventional switch in combination with this type of dimmer. Follow the same wiring as for 1-way circuits with three (or two) wires linking each slave using the “LOAD” terminal, “S-LINK” terminal and (optional) “LIVE” terminal. (Please see wiring diagram overleaf).

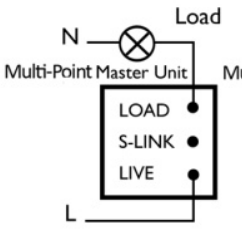

Fig 1. Wiring for 1-Way Circuits

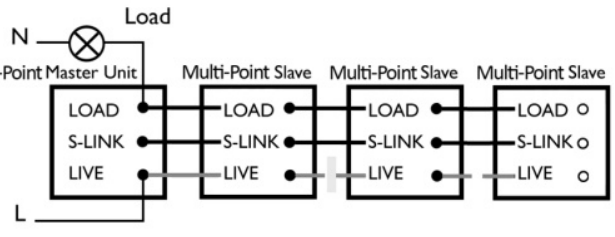

Fig 2. Wiring for Multi-Way Circuits

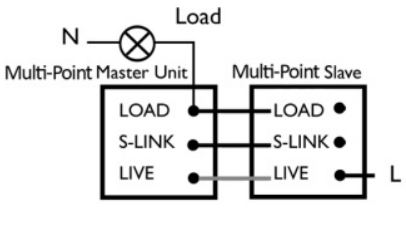

Fig 3. Alternative Wiring for Multi-Way Circuits