

# Instructions for VARILIGHT 1-10V Dimmerswitches

## OVERVIEW

Thank you for choosing a VARILIGHT dimmerswitch. This dimmerswitch is designed for high frequency dimmable ballasts that require a 0–10V or 1–10V control signal.

## LOADING

This dimmerswitch is designed to work with one or multiple dimmable ballasts up to 20mA. The mains switch is rated at 230V a.c. 6A maximum.

**Do not use this dimmerswitch for any other purpose.** The dimmerswitch will be damaged if used for these applications.

**Do not connect the 1–10V control terminals to the mains.** Incorrect use will make your guarantee invalid.

**WARNING:** The switch in this product is rated at 6A. Check the in-rush current for LED bulbs or drivers does not exceed 6A before connecting. Fit inrush current limiters where necessary.

## 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, 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, Caryl's Lea, Faygate, Horsham, West Sussex, RH12 4SJ** (Tel. (01293) 223333) together with a letter stating the guarantee registration number above, 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 driver(s) 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: F004**

<a href="http://www.varilight.co.uk">www.varilight.co.uk</a>	<b>F</b>
Please <b>record the batch number</b> 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.	
BATCH NO:	Reg. F004
<b>INSTALLERS</b> – Please leave these instructions with your customer for future reference.	

## 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. Most models can be fitted into a box with a minimum depth of 25mm, i.e. a normal plaster depth flush box or a normal surface mounted switch box. 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 circuits or for 2-way circuits refer to the diagrams overleaf. If you are using a dimmerswitch in a 2-way circuit then you can only use one dimmerswitch in the circuit, an ordinary switch must be at the other end. 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. Use screened 2-core cable for the 1–10V control signal. The outer (screening) conductor should be earthed at one end. **Do not connect the 1–10V control terminals to the mains.**
5. Dimmerswitches having a metal front plate must be earthed by means of the earthing point provided on the dimmer.
6. 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. Once installation is complete. Switch on the mains supply and switch on the dimmer, turning the control knob to give the desired light level.

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

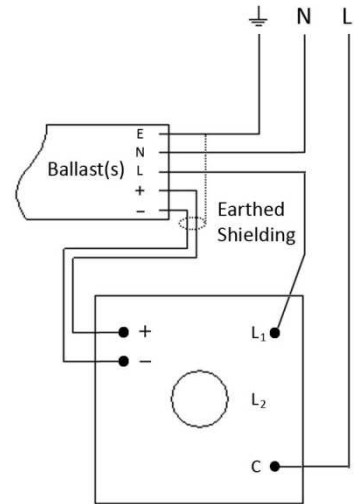
**WARNING:** Do not apply products with metal faceplates directly to freshly plastered or damp surfaces as product may tarnish. If in doubt, use polythene as a temporary gasket to protect the product. Do not use masking tape on metal faceplates.

## 1-WAY CIRCUITS

A 1-way lighting circuit is a circuit in which the lighting is controlled from one location.

A push-on/push-off dimmerswitch has the advantage that it can be switched on and off with a push action, while keeping the lighting at the level chosen.

When installing this product into a 1-way lighting circuit, copy the wiring configuration for the dimmerswitch below. If retrofitting this product, the wires from your old switch can be connected either way round to the "C" and "L1" terminals of the dimmerswitch. There is a spare terminal (L2) that you will not need to use for a 1-way circuit. You will then need to connect the signal wires from the ballast to the signal side of the dimmer (+ & -).



## 2-WAY CIRCUITS

2-way lighting circuits have two switches switching lights from two different locations (e.g. at the top and bottom of the stairs). In this configuration there must be one dimmer maximum per circuit.

If retrofitting this product, remove your old switch and copy the wiring configuration for your dimmerswitch. 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. You will then need to connect the signal wires from the ballast to the signal side of the dimmer (+ & -).

**Note:** Dimmer switches have "C" next to "L1" & "L2" whereas most switches have "C" at the opposite end to "L1" & "L2".

