

INSTALLERS – PLEASE LEAVE THESE INSTRUCTIONS WITH YOUR CUSTOMERS FOR FUTURE REFERENCE



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Please record the batch number printed on the side of product at the back. This will assist us in providing any technical support you require.

J_E
Reg. 221

BATCH NO:

Instructions For Fitting VARILIGHT V-Pro Eclique² Tactile-Touch / Remote Control Dimmerswitches

Thank you for choosing a **VARILIGHT V-Pro Eclique²** intelligent programmable tactile-touch/remote control dimmerswitch. Use only on an electricity supply of 200-250 volts AC.
IMPORTANT: Read "Loading Advice" section 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 set to run in leading edge mode by following the instructions "Optimising Performance" overleaf.

The Eclique² master dimmer is suitable for 1-way circuits. For 2-way (or multi-way) circuits, use an Eclique² master dimmer with one or more Eclique² dimming slave units. Eclique² master dimmers cannot be used in conjunction with conventional switches in a 2-way circuit. Use only on an electricity supply of 216-253V~. Eclique² dimming slaves are tactile-touch control only. Remote control is only possible for the master unit.

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.

THIS SWITCH IS NOT SUITABLE FOR

- X Non-dimmable fluorescent bulbs and tubes;
- X Wire-wound or toroidal transformers;
- X Electric motors.

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 on the right];
- ✓ GU10 or similar good quality mains halogen bulbs
- ✓ Dimmable CFLs
- ✓ Most dimmable LEDs [see "Dimmable LEDs" box on the right]

Always Observe The Recommended Maximum Loads

[Please also refer to "Overload Protection" box on the right]

Dimmer Series \ Lighting Type	V-Pro Eclique² 1 Gang Max. Load	V-Pro Eclique² 2 Gang Max. Load Per Gang	V-Pro Eclique² 3 Gang Max. Load Per Gang	V-Pro Eclique² 4 Gang Max. Load Per Gang
Incandescent	300W	200W	300W	200W
Mains Halogen	250W	150W	250W	150W
Low Voltage Halogen	250W	150W	250W	150W
Eco Halogen	250W	150W	250W	150W
LED	[Refer to text in "Dimmable LEDs" box on the right.]			
CFL	For 1 to 6 DigiFlux CFLs Use MODE 3: DigiFlux Mode [See: "Optimising Performance" overleaf]			

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.

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.

ADVICE ON CHANGING LIGHT BULBS:

Always turn off the mains power when light bulbs controlled by your Eclique dimmer are replaced. If you change the type of light bulb then restore factory settings as described above.

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.

DIMMABLE LEDs

Always choose LEDs that are described as "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. Therefore we recommend contacting the lamp supplier to confirm compatibility. 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. Generally 1 to 10 LED lamps will perform well per dimmer circuit (gang). A maximum load of 100W for LED is recommended. The dimming performance of dimmable LEDs may be improved by following the steps outlined above under the heading "Optimising Performance".

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 "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 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.

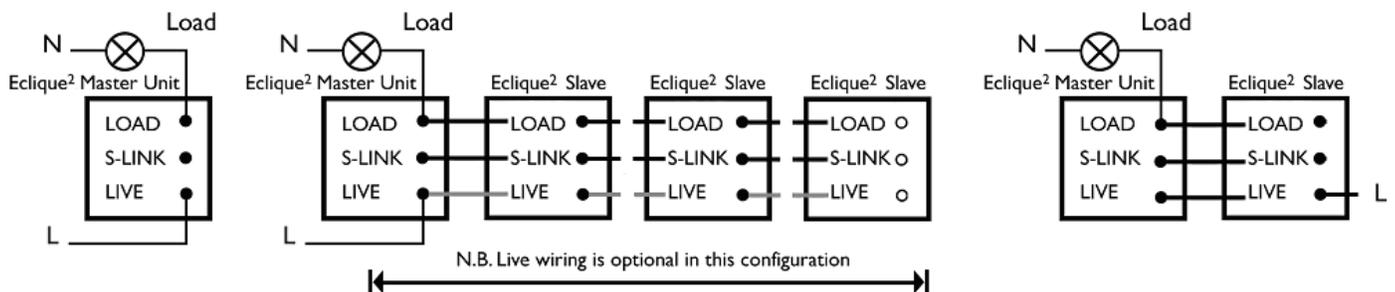
1-Way, 2-Way and Multi-Way Circuits

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 Eclique 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 below).

Fig 1. Wiring for 1-Way Circuits

Fig 2. Wiring for Multi-Way Circuits

Fig 3. Alternative Wiring for Multi-Way Circuits





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

The upper region of the button on Eclique² 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.
- Double press [Down] to recall preset lighting scene [This feature is only available if using the VARILIGHT YRE8 handset with LightScene™ – see below]
- 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 the Dimmer to Respond to a Remote Control Handset

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

- Dimmers are pre-programmed to respond to button 1 **and** button 8 on the VARILIGHT YRC8 remote control handset (purchased separately) but can be programmed to respond to a spare button on most infrared remote control handsets.
- To program the dimmer to respond to a different button on a remote control handset, press 6 times on the [Up] region of the button, roughly once per second. The lights will step up and down and then switch off to indicate that the dimmer is in programming mode.
- Within 15 seconds and from a distance of less than 1 metre (3 feet) away, pointing directly at the button on the dimmer, briefly press the chosen button on the handset. The light(s) will turn on and turn off.
- To confirm your choice, briefly press the same button again. The light(s) will turn on and turn off if the programming has been successful. The lights then step up and down once to confirm. Try controlling the dimmer with the remote control. If it does not respond return to step 1 above and try again. If the problem persists, try a different button, a different remote control unit or purchase the dedicated VARILIGHT controller.
- For additional functionality choose the VARILIGHT YRE8 remote control handset with LightScene™.

Using a Remote Control Handset

- On a remote control handset change the direction of the dimming cycle by releasing and then pressing the button again. Turn the lights on or off with a short press of the button.

1. Using a spare button on an existing handset

If you have a spare button on an existing remote control handset then you may be able to use it to control this dimmer. Not all handsets are compatible with VARILIGHT dimmers but many are. If you try and program the dimmer using your own handset and find that it does not respond then you will need to buy a VARILIGHT YRC8 handset (standard control) or YRE8 handset (for advanced control with LightScene™) instead. In some cases the dimmer may appear to learn the signal from your own handset but then respond to other handsets as well. In this case please use the reset function to restore factory settings and buy a VARILIGHT handset instead. For best results, always choose a VARILIGHT handset.

2. Using the standard VARILIGHT YRC8 handset

Our standard handset allows control of up to 7 dimmers. Button 8 can be used to turn all the lights on or off. The dimmers will remember the level they were at when switched off and so the previous light levels can be recalled using button 8.

3. Choose the VARILIGHT YRE8 handset for enhanced lighting control

- Control up to 4 lighting circuits from a numbered button
- Turn all the lights on or off using a master button
- Lightscene™ - Combine different light levels in separate circuits to create a lighting scene (e.g. for cooking, dining, reading, movies, etc.)
- Save your 4 favourite lighting scenes and recall any one at any time



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. 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.

FREQUENTLY ASKED QUESTIONS

- 1. Is it normal for the dimmer to be warm to the touch even when the lights are off?** A small current passes through the dimmer even when it is off to maintain its memory. This can cause the dimmer to feel warm to the touch.
- 2. Should I be concerned if the dimmer is very warm during use?** The dimmer will become warm during use. The more lights the dimmer is controlling, the hotter it will become. On its maximum load the dimmer can become very warm. As long as you have not overloaded the dimmer, this is no cause for alarm. If the dimmer is overloaded it will turn the lights down or off.
- 3. What happens if I have a power cut?** If for any reason the power is lost to the dimmer, it will still remember the button you have programmed it to respond to.
- 4. Why won't my dimmer respond to the remote control?** Check batteries are not flat and are connected properly to the contacts in the casing. Make sure you point the remote control in the direction of the switch and that there is nothing in the way to block the signal. Move closer to the switch. For best results use a VARILIGHT handset. In some cases there may be interference between LED lamps and remote control handsets. If you experience problems, follow the "RESTORE FACTORY SETTINGS" guidelines above.
- 5. The lights still glow when the dimmer is switched off.** Most dimmable LEDs are designed not to illuminate at very low levels of power to avoid issues when used with electronic dimmer switches. A small current passes through the dimmer even when it is off to maintain its memory. If your LED lights remain illuminated when the dimmer is switched off then you can add a Varilight Glowfix Adapter (ask your supplier for Varilight part no: YAGF) to the circuit to prevent this happening.
- 6. The dimmer keeps turning itself off.**
 - (a)** The dimmer may be doing this because it is grossly overloaded. Use lower wattage bulbs (or dimmable electronic transformers) to reduce the load. Otherwise use the dimmer elsewhere on a suitable load.
 - (b)** The dimmer will also turn off if you are trying to control an unsuitable inductive load (such as a wire-wound or toroidal transformer). In this case change the load to a dimmable electronic transformer.
- 7. The dimmer responds to other buttons on my remote control handset(s).** Repeat the programming procedure above, holding the handset less than a metre (3 feet) from the front of the dimmer and pointing directly at the lens when you press your chosen button. For best results use a VARILIGHT handset.
- 8. How many slaves can be used with a master unit in a multi-way circuit?** Any number of slaves can be used as long as the total cable length from the master to the last slave is less than 50m.

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.
- 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 221.