

Nursery Intelligent Touch Safety Dimmers

1 Way

Thank you for choosing **VARILIGHT**. This dimmer is suitable for 1-Way Circuits only. Use only on an electricity supply of 200 to 250 volts a.c.. This dimmer features versatile trailing-edge control making it suitable for a wider range of applications.

THIS SWITCH IS SUITABLE FOR

- ✓ Mains voltage GLS bulbs;
- ✓ Most dimmable electronic low voltage transformers (including those requiring trailing-edge control) [see "Transformers" box on the right];
- ✓ GU10 or similar HiSpot mains halogen bulbs
- ✓ Candle bulbs

Never exceed the recommended maximum load
[see "Safety Features" box below]

THIS SWITCH IS NOT SUITABLE FOR

- ✗ Fluorescent lights or compact fluorescent bulbs;
- ✗ Wire-wound or toroidal transformers;
- ✗ Electric motors or fans

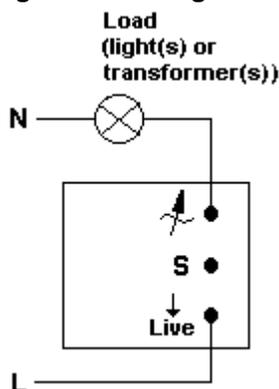
FITTING THE SWITCH

Read the instructions below carefully before beginning. **In case of any doubt or difficulty consult a qualified electrician.**

1. Switch off at the mains.
2. 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 dimmer.
3. Ensure that any wall box is free of plaster lumps or projecting screw heads. Use 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.
4. To connect the wiring, refer to the diagram below. Dimmers with a metal front plate **must be earthed** by means of the earthing point on the dimmer. You must ensure that all wires are sleeved fully and only enough bare wire is showing to connect to the terminals. Push wires deep into terminals and tighten terminal screws so that wires are held securely. No bare wires should protrude from the terminals.
5. After connecting the wires, screw the dimmer gently into the wall box. Do not trap the wiring between the rear of the dimmer and the back of the wall box.
6. Turn on the mains electricity.

Your **VARILIGHT** Nursery Touch Dimmer is suitable for 1-way circuits. It **cannot** be used conjunction with another switch in a 2-way circuit. In 1-way lighting circuits each light is controlled by one switch. This dimmer replaces that switch. The live wire **must** be connected to the terminal marked "Live ↓" and the "load" wire to the terminal marked "↗". This means that the terminal marked "↗" is connected directly to the light(s) (or transformers for low voltage lighting).

Figure 1. Wiring for 1-way circuits



SAFETY FEATURES:

This dimmer will protect itself against overload, short-circuit, over-temperature and over-voltage. To avoid these safety features turning the dimmer down or off, make sure you load the dimmer correctly by carefully reading the advise in this leaflet.

If a gross overload or short-circuit occurs the dimmer will automatically turn off until the overload or short-circuit is removed and the dimmer is switched on again.

Even if the dimmer is slightly overloaded it will react by turning down the brightness progressively. If it can find a comfortable operating level it will stay on with the light(s) at reduced brightness, otherwise it will switch off.

This dimmer should be not be used on wire-wound transformers. If it is mistakenly connected to a wire-wound transformer the dimmer will warn the user by coming on at a low brightness for 2 seconds before switching off completely. **N.B.** To prevent damage to itself, the dimmer will only perform this warning 3 times. After this it will block further use until it is disconnected from and then re-connected to the mains electricity supply.

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 712.**

OPERATION OF THE SWITCH

The first time you use it, initialise the dimmer, by touching the circular “button” on the front of the plate once for 2 seconds.

This switch can operate in NURSERY mode or be used as a normal touch dimmer (see (a) below). Without programming, NURSERY mode will gently dimming the lights to OFF over 30 minutes. For other NURSERY modes see (“Changing Nursery Mode” below).

The way you turn the lights **on** determines which mode the switch goes into:-

a) **NORMAL DIMMER MODE**

With the lights off, a quick tap with your finger will turn the lights on with **no** NURSERY mode. To dim the lights, keep contact with the button until the desired light level is reached. While contact with the button is maintained, the brightness will cycle up and down. To change the direction of the dimming cycle remove contact and then touch the button again. When the brightness reaches the level you require, remove contact with the button. A further quick tap will turn the lights off.

b) **NURSERY MODE**

With the lights off, a long touch will bring the lights on in NURSERY mode and then begin to change the light level. Remove contact with the button when the lights are at the level you want. While the lights are on you can still dim or brighten the lights with a long touch without affecting the nursery program. A further quick tap will turn the lights off.

Changing Nursery Mode

In NURSERY mode the lights will gently dim down over 30 minutes (or 1 hour - see below) from the time you last touch the switch.

The switch has two further modes:-

1. Dimming down to off, and
2. Dimming down to a low light level (glow).

1. Dimming to Off

To set the dimmer to dim to OFF, the lights should be OFF for at least 5 seconds before starting nursery mode (see below)

2. Dimming to a Low Glow

To set the dimmer to dim to a LOW GLOW, the lights should be ON at the low glow level you want **for at least 5 seconds** before starting nursery mode (see below)

How to Change Nursery Mode

With the lights off or on (see (1) and (2) above), tap the button with your finger 6 or more times in quick succession (each tap causes the light(s) to turn on or off). After 6 or more taps, the lights will step up and down once and go off to indicate you are in programming mode.

During the next 5 seconds **either**:-

Do nothing - Means the lights will dim over **30 minutes** OR

Touch twice more - Means the lights will dim over **1 hour**

Your chosen NURSERY mode remains set until you program a new one.

Remember, however you have programmed the switch, you can turn the lights on with a short touch.

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 warmer 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.
3. **What happens if I have a power cut?** If for any reason the power is lost to the dimmer, the dimmer will be reset to its factory setting. Any settings you have applied to the dimmer will need to be re-programmed. *Keep these instructions safe so that you can use them again if this occurs.*
4. **Can this dimmer be used in 2-way circuits?** No, this is a 1 way dimmer. It cannot be used to control lights that are also controlled by another switch elsewhere.
5. **The touch button does not work properly.** This can be caused by the live and load wires being in the wrong terminals (see wiring diagram overleaf).
6. **The light(s) come(s) on dim for 2 seconds and then the lights go off.** This could be the dimmer warning you that it is connected to a wire-wound transformer(s). It **cannot** be used to control wire-wound transformers. (N.B. In this situation, the dimmer may block any further use until it is disconnected from the mains.) Either replace the transformer(s) with a dimmable electronic transformer(s) or use the dimmer elsewhere on a suitable load.
7. **The dimmer keeps turning the lights down.** The dimmer is doing this because it is overloaded. If it can find a comfortable operating level it will stay on with the light(s) at reduced brightness, otherwise it will switch off. One solution could be to use lower wattage bulbs or transformers to reduce the load. Otherwise use the dimmer elsewhere on a suitable load.
8. **The dimmer keeps turning itself off.** The dimmer is doing this for 1 of 3 reasons: (1) It is overloaded. One solution could be to use lower wattage bulbs or transformers to reduce the load. Otherwise use the dimmer elsewhere on a suitable load; (2) There is a short-circuit. Check your wiring or consult a qualified electrician; (3) It is sensing an unsuitable load such as a fan or wire-wound transformer. Either replace the transformer(s) with a dimmable electronic transformer(s) or use the dimmer elsewhere on a suitable load.

Keep these instructions safe.

If the power to the dimmer is lost at any time (eg. during a power cut or the wiring is disconnected), the dimmer will revert to its factory setting. It can be re-programmed by following these instructions again.

Electrical Contractors

Please leave these instructions with your customers.