

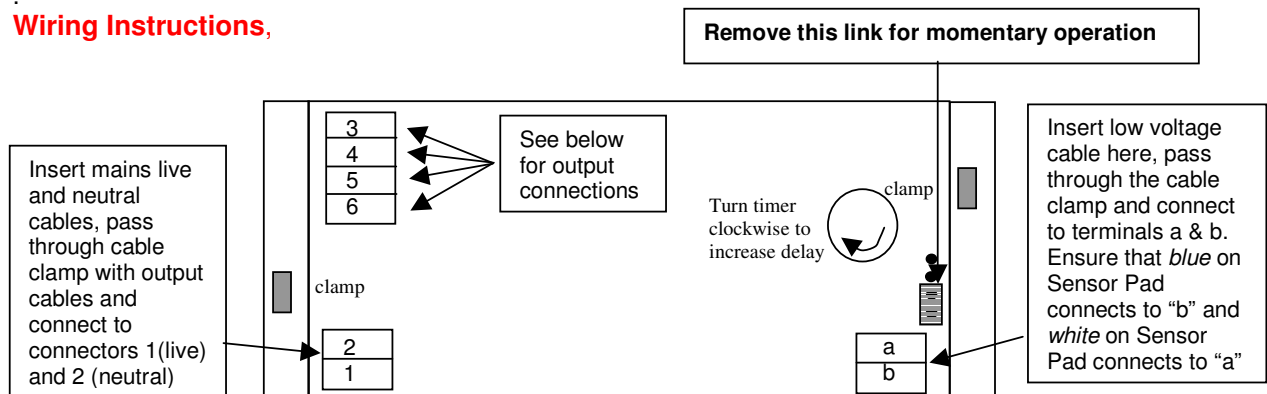
The Nursery Switch

The *Nursery Switch* is a new concept in “one”, “two” (or more) way light switch operation and consists of a small controller housing that can be hidden in the ceiling cavity, either behind the light rose or adjacent to a relevant junction box, allied to satellite *Sensor Pads*. These *Sensor Pads* can be adhered to the rear of most materials such as glass, plastic, ceramic tiles, metal and wood; and project a proximity sensing field through the material allowing you to create light switches of your own design to match your Nursery’s décor.

The *Sensor Pads* themselves operate on only 5volts DC, and can utilize existing cabling. Only 2 wires per switch are used. The PCB of the *Sensor Pad* is no bigger than a postage stamp so the switching sites can be very un-obtrusive if necessary. This means that the cabling within the walls is only carrying this low voltage and is therefore very safe. Up-to 6 *Sensor Pads* can be used to operate each controller.

The *Nursery Switch* circuit uses a relay that is contained within the controller housing to operate the switching function. The delay in switch-off can be varied by rotating the internal timer; clockwise increases delay and anti-clockwise decreases delay. Operating the *Nursery Switch* is simple: Touch your chosen faceplate (tile etc.) and the lights will turn on at low level, keep touching and the lights will begin to ramp up to full brightness, remove the hand and the lights will stay at the intensity reached. To switch off, touch briefly and the lights will ramp down to off when the set time has expired. By removing the momentary link (see below), the controller will time out without a second touch.

Wiring Instructions,



Output Connections, (these connection details are also on the inside lid of the housing)

- 3 Relay Common
- 4 Relay Normally closed
- 5 Relay normally open (use this for normal live output to lights)
- 6 Neutral output

Features:

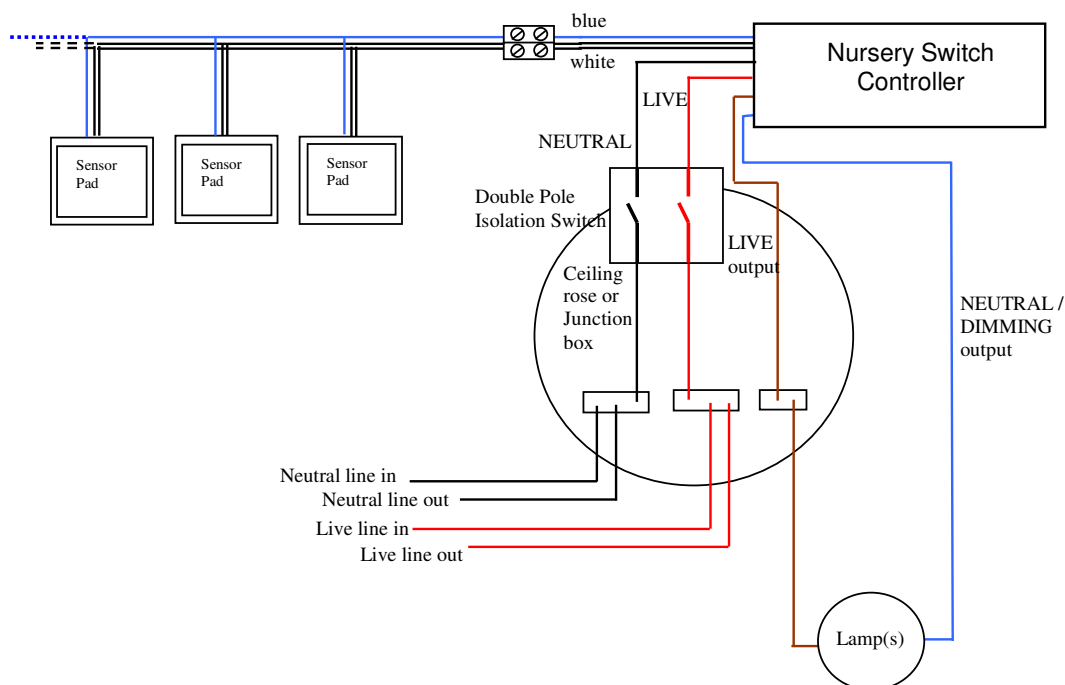
The new *Nursery Switch* will, over a delayed time settable between 1 and 5 minutes, slowly dim down the lights and then switch off completely; thus creating a gentler, more soporific and less traumatic end to the day.

The *Nursery Switch* is also very safe, with only 5 volts being present at the switch. This switch is in fact a small sensor that can be adhered behind a faceplate of your choice and operated by a simple touch, Your faceplate can be made of virtually anything, glass, plastic, ceramic or even metal and the design is totally up to you! The sensor is connected by 2 wires to small a controller that can be placed within the wall or ceiling cavity and which provides the switching and dimming of the mains voltage lighting circuit. More than one *Sensor Pad* can be used to operate the *Nursery Switch* controller. Using any of these *Sensor Pads* will provide full function operation.

Retrofitting of the *Nursery Switch* should be carried out by a qualified electrician and any existing wiring can usually be used.

Please see overleaf for wiring diagram and specifications

Wiring layout for the Nursery Switch:



All wiring undertaken must be in line with IEC regulations

Uses:

The *Nursery Switch Controller* can be used to operate most types of lighting including low voltage transformers;. It is also suitable for use with fluorescent lighting, including low energy bulbs. **Please do not exceed the switching capability of the controller (350Watts)**, if this loading is exceeded, the controller will shut down **permanently**.

Installation:

Controller:

The *Nursery Switch Controller* should be mounted in an accessible position, and supplied through a double pole isolation switch. All wires should always be routed through the internal cable clamps and inserted into the correct connections. The *Nursery Switch Controller* should never be covered with any thermal insulation material. **All mains wiring should be undertaken by a qualified electrician and be in line with IEC regulations.** Please ensure that power is switched **OFF** prior to working with any mains electrical product. Note to installers – *The Nursery Switch Controller* is intended for fixed installation only.

Sensor Pads:

The low voltage cables and *Sensor Pads* can be fitted and wired by competent DIYers; this means that if necessary, installation of the *Sensor Pads* can be undertaken by an un-qualified person (DIY) whilst, for example, tiling is being done. Please see separate installation instructions accompanying your *Sensor Pads*. **All mains wiring must be undertaken by a qualified electrician.**

Specifications:

Controller Operating voltage	220 – 240 vac 50Hz (110 vac available on request)
Sensor Pad voltage	5 vdc
Max. Controller switching capacity	350 Watts
Max. Ambient temperature	35° C
Controller Dimensions	140 x 56 x 32mm
Sensor Pad PCB Dims.	22.5 x 18.5 x 3.5mm