

# The Sensor Switch



The Sensor Switch is designed to replace 1 way toggle or dimmer type light switches which operate Incandescent bulbs and Low-Voltage Halogen lights with wire-wound transformers. Sensor switches are **not compatible** with fluorescent lighting and “electronic transformers”. If you need help to find a wire-wound transformer, please call us.

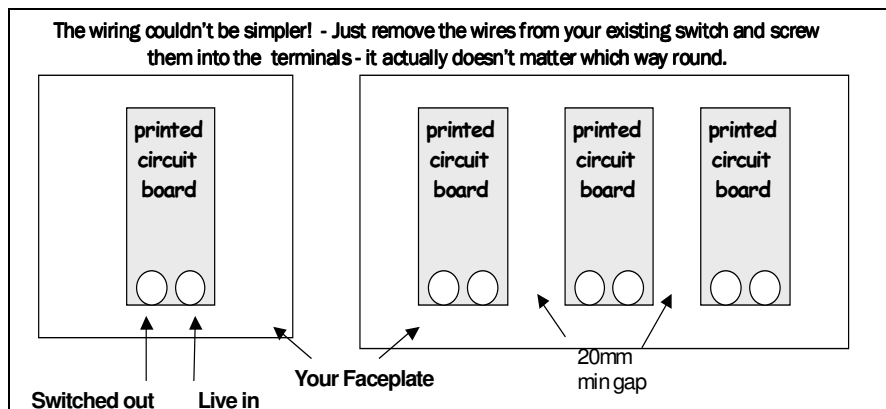
The Sensor Switch can be supplied as a *Module*, it can be fitted to your own faceplate which can be made of virtually any material and in any shape. Simply bond the Sensor Switch Module to your face-plate using silicone sealant. More than one Sensor Switch module can be used on a single face-plate – just ensure that they are spaced apart by at least 20mm. (this spacing can differ depending on material and thickness). - (only one module per faceplate if it is metal)

It is advisable to protect your Sensor Switch from large transient voltage spikes which may be produced when a bulb blows, (especially GU10 mains voltage halogens), this can be done by inserting a 2amp fuse in line on the output wire (between Sensor Switch and lamp). If you need one please ask for part No. **IFH-2A**.

**If you require a Sensor Switch for loads such as fluorescent lamps etc., please ask for our relay output Bathroom/Multi-way Switch which can also be used for 2 (or more) way switching.**

## Instructions for using dimmer version:

- 1 **ON/OFF Mode:** a single “hard” touch over the centre of the switch, switches on/off.
- 2 **DIMMER Mode:** a gentler approach will activate the dimmer function, hold your hand in position until the desired light level is reached.



## Specifications for the Sensor Switch – SS-230-1G1W-S and SS-230-1G1W-D

Supply voltage	220 - 240 vac
Switching capability	40 -300 Watts

It is possible to use the Sensor Switch module in Zone 3 within a bathroom if it is mounted behind a sealed faceplate – for other zones use our **Bathroom Switch**

We reserve the right to change specifications without notice

If you have any questions relating to the installation or operation of your Sensor Switch, please contact us:

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Tel: 01548 511498, Fax: 01548 511393, [www.sensor.co.uk](http://www.sensor.co.uk) , [sales@sensor.co.uk](mailto:sales@sensor.co.uk)

## Fitting your own faceplate to a Sensor Switch module

We suggest using a thin layer (1mm thick) of bathroom silicon sealer for fixing your module to your chosen switch plate. Alternatively a “Superglue” may be used. – Try to minimise any air gap between the faceplate and the module.

When fitting a Ceramic Tile with a Sensor Switch module mounted on it, use a small blob of silicon paste at each corner of the tile to mount it to the wall surface, then grout the tile in question to about ¾ depth with silicon. This will ease access to the module should it ever be necessary as well as isolating it from the surrounding wall surface. You can then over-grout with your normal grout. Make sure that you do not position your “sensor tile” where water can splash directly on it. If your tile is in a bathroom we suggest that, to fully comply with the latest regulations as regards double insulation, the Sensor Switch Module is mounted first on a thin piece of plastic which has a larger surface area than the Sensor Switch; this plastic can then be adhered to the tile as above.

If your chosen switch plate is a wooden one, please ensure that the wood is sealed *completely* by using a varnish or polyurethane, this includes the rear surface where you are mounting the Sensor Switch Module. The reason for this is that wood is hygroscopic (it will absorb water) and the Sensor Switch sensing field can be reduced should the wood take up too much water from the atmosphere.

Metal switch plates can be used but certain precautions are necessary:-

- 1 If your pattress (back box) is metal, it will be earthed. If the metal switch plate is fixed to the pattress using metal screws it will also be earthed – this earth will effectively drown the sensing field. There are 2 easy ways of solving this problem:
  - (a) use plastic screws which we can supply to you.
  - (b) Use a Sensor Switch with our standard white plastic faceplate fitted and screw this to the pattress with the normal metal screws, place a small square of insulating tape over the screw heads once done up. Adhere your metal plate to the front of the plastic faceplate. This method has the advantage of not showing the mounting screws.
- 2 If your pattress is plastic; none of the above precautions should be necessary.
- 3 If fitting a Sensor Switch with a metal switch plate to a wall surface which is, or could get damp, there is a chance that this dampness could affect the earth characteristics of the wall and in turn reduce the effectiveness of the sensing field or even lead to “cycling” or switching on and off of the Sensor Switch. Should you come across this happening, place a gasket of rubber or plastic between the switch plate and the wall, which will break the earth contact.
- 4 More than one module can usually be fixed to a given faceplate – this is NOT the case with metal faceplates where only one Sensor Switch module per faceplate should be fitted.

N.B. MDF. – It is not recommended that you install modules into parts of MDF sheets. MDF is very hygroscopic. If you wish to use modules in conjunction with MDF which is laminated, rout out the MDF right through to the underside of the laminate, and attach the module to the laminate.

It is advisable to protect your Sensor Switch from large transient voltage spikes which may be produced when a bulb blows, this can be done by inserting a 2amp fuse in line on the output wire (between Sensor Switch and lamp). We can supply these fuse + fuse carriers.

The Sensor Switch is not suitable for use with Fluorescents ( Including low energy PEs), it should also not be used with “electronic transformers”. Wire-wound (real) transformers are OK and using them to switch or dim low voltage halogens is no problem. If you need help to find a wire-wound transformer, please call us.

Please note that sometimes your Sensor Switch will not behave correctly until any adhesive and silicone sealant has dried completely.

If you have any questions at all, please call our Sensor Switch help desk on 01548 511498 and we will be pleased to advise you on your specific application.