

**IMPORTANT installation instructions ~ Bathroom Switch Sensor Pad**  
**We cannot be held responsible for poor or non-functionality of your Bathroom Switch if the following instructions are not followed**

We suggest using a thin layer (1-2mm thick) of bathroom silicone sealer for fixing your Sensor Pad to your chosen switch plate. – Try to minimise any air gap between the faceplate and the Sensor Pad.

**IMPORTANT!**

**When fitting a Ceramic Tile with a Sensor Pad mounted on it, use a few blobs of silicone sealant on the back of the tile to mount it to the wall surface, then grout the tile in question to at least  $\frac{3}{4}$  depth again with silicone (see over). This will ease access to the Sensor Pad should it ever be necessary as well as isolating it from the surrounding wall surface. You can then over-grout, as a dressing, with your normal grout . Make sure that you do not position your “sensor tile” where water can splash directly on it. If there is a possibility of splashing, the application of a product such as “Rainex” can be used. **If your tiles are of natural stone, soak the tile in a 5:1 water/PVA solution overnight and allow to dry before fitting.****

**Sensor Pads can be fitted behind larger tiles but you should consider using a tile with an insert, the large tile can then be installed in the usual manner with the above silicone method being used on the insert.**

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 Pad. The reason for this is that wood is hygroscopic (it will absorb water) and the Sensor Pad sensing field can be reduced should the wood take up too much water from the atmosphere. N.B. MDF. – **It is not recommended that you install pads into parts of MDF sheets.** MDF is very hygroscopic. If you wish to use pads in conjunction with MDF which is laminated, rout out the MDF right through to the underside of the laminate, and attach the pad to the laminate.

**Metal switch plates**-certain precautions are necessary:- **NB only 1 Sensor Pad can be fitted to each metal plate**

- 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.
  - (b) Use a Sensor Pad with a 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 **Always** stick some insulating tape in the place where the Sensor Pad will be mounted.
- 4 If fitting a Sensor Pad 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 Pad/Controller. 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.

### **To Increase the Sensor’s range**

The sensing field of The Sensor Pad increases once fitted to a tile - **If you need to further increase the range**, solder a short (100mm) piece of wire to the solder hole provided and fix this using silicone and insulating tape to the rear of the tile. The size of the additional “antennae” will determine the additional sensing range you will achieve. The size of the “nest” hole needs to be increased. Do not attempt to create too large a field as you could experience switching problems. **There are other suggestions so please call us before using this suggestion.**

When testing a faceplate, make sure that you are not holding it when power is switched on – if you are holding it, the switch will calibrate out not only the faceplate but you also - and will therefore not recognise your hand operating it! Once you are happy with the placement of your Sensor Pad, a thin layer of silicone can be wiped over the rear of the pad, this will give extra protection against shorting etc. Also remember, your Sensor Pad might not work correctly ‘till any silicone or adhesive etc. is dry.

**Mirror Mounting:** If you wish to place your Sensor Pad behind a mirror, call us for the relevant information sheet or visit [www.sensor.co.uk/support/instructions/assets/Mirror\\_Mounting.pdf](http://www.sensor.co.uk/support/instructions/assets/Mirror_Mounting.pdf)

To connect the Sensor Pad to the Controller, use speaker cable or bell wire, if your cable run is likely to pass close to another Sensor Pad’s cable or mains voltage cable, or you have a long run of cable, we recommend using “CAT 5” cable. If you are using existing “twin & earth”, connect the earth wire to a convenient earth connection at the controller end, leaving the sensor end un-connected. Cable length can be up to 20Mtrs but use “CAT5” for runs exceeding 5Mtrs.

We have tried to cover most eventualities, however should you have any questions at all, please call our help desk on 01548 511498 and we will be pleased to advise you on your specific application. **So if you have any doubts – please ask!**