CLAIMS:

1. A touch switch module for use with a switch faceplate assembly comprising a designated region on an outer face comprised of a non-conductive material, the module comprising:~~;~~

a housing comprising a touch switch interface cover and a plurality of connectors which in use secure the housing with respect to the switch faceplate assembly;

a touch switch circuit within the housing; ~~and~~

a touch switch interface for interfacing between the touch switch circuit and the switch faceplate when installed, wherein the touch switch interface comprises a conductive element and ~~.~~

~~2. A touch switch module as claimed in claim 1 further comprising~~ a biasing element disposed between the conductive element ~~touch switch interface~~ and the touch switch circuit for biasing the conductive element of the touch switch interface towards the touch switch interface cover, and ~~switch faceplate~~ when installed, the housing is secured so that the touch switch interface cover either abuts the inner face of the switch faceplate, or is sufficiently close to the inner face of the switch faceplate, so as to operatively connect the touch switch module to the designated region of the switch faceplate so that a user can actuate the touch switch by touching the designated region of the switch faceplate.

2~~3~~. The~~A~~ touch switch module as claimed in claim 1~~2~~ wherein the biasing element is a spring.

~~4. A touch switch module as claimed in claim 3 wherein the touch switch interface comprises a conductive element.~~

3~~5~~. The~~A~~ touch switch module as claimed in claim 2~~4~~ wherein the conductive element is a conductive plate.

4~~6~~. The~~A~~ touch switch module as claimed in claim 3~~5~~ wherein the conductive plate is supported by a conductive element support.

5~~7~~. The~~A~~ touch switch module as claimed in any one of claims 1 to 4~~2 to 6~~ further comprising electrical terminals for connection to supply wires.

6~~8~~. The~~A~~ touch switch module as claimed in claim 5~~7~~ further comprising a switching circuit.

7~~9~~. The~~A~~ touch switch module as claimed in claim 5~~7~~ further comprising a dimmer circuit.

8~~10~~. The~~A~~ touch switch module as claimed in any one of claims 1 to 7~~2 to 9~~ further comprising a transmitter for transmitting a switch command to a remote receiver.

~~11. A touch switch module as claimed in any one of claims 2 to 10 wherein the housing comprises a touch switch interface cover covering the touch switch interface.~~

9. The touch switch module as claimed in any one of claims 1 to 8, wherein the plurality of connector elements are located around the periphery of the housing, and the switch faceplate assembly comprises a switch faceplate, a faceplate grid, and a faceplate back and in use the switch faceplate is connected to the faceplate back that is secured about an aperture in a surface, and the faceplate grid comprises at least one grid aperture and is secured to the faceplate back, and the connector elements engage with the faceplate grid to secure the touch switch module such that the touch switch interface cover protrudes through one of the at least one grid apertures.

10~~12~~. A touch switch assembly comprising:

at least one touch switch module as claimed in any of claims 1 to 9~~11~~; and

a switch faceplate assembly operatively connected to each of the at least one ~~the~~ touch switch module comprising a switch faceplate comprising at least one designated region on an outer face comprised of a non-conductive material, wherein each of the at least one touch switch module is secured to the switch faceplate assembly so that a touch switch interface cover of each of the at least one touch switch module either abuts the inner face of the switch faceplate, or is sufficiently close to the inner face of the switch faceplate, so as to operatively connect the touch switch module to the designated region of the switch faceplate so that a user can actuate the touch switch by touching the designated region of the switch faceplate.

11. The touch switch assembly as claimed in claim 10, wherein the at least one touch switch module is as claimed in claim 9, and the switch faceplate assembly comprises:

a switch faceplate operatively connected to the touch switch module comprising at least one designated region on an outer face comprised of a non-conductive material;

a faceplate back that in is secured about an aperture in a surface; and

a faceplate grid comprising at least one grid aperture for receiving a touch switch module, and the faceplate grid and switch faceplate are secured to the faceplate back, and each of the at least one touch switch module is secured in one of the at least one grid apertures such that the respective touch switch interface cover protrudes through the respective grid aperture to either abuts the inner face of the switch faceplate, or is sufficiently close to the inner face of the switch faceplate, so as to

operatively connect the touch switch module to the respective at least one designated region of the switch faceplate.

12. The touch switch assembly as claimed in claim 11 wherein the at least one designated region comprises 2, 3, 4, 5, 6, 7 or 8 indentations for receiving a part of a user's finger to operate the touch switch circuit in the touch switch module, and the faceplate grid respectively comprises at least 2, 3, 4, 5, 6, 7 or 8 grid apertures.

13. A switch faceplate for a touch switch assembly comprising the switch faceplate and at least one touch switch module as claimed in any one of claims 1 to 9~~11~~, ~~operatively connected to the switch faceplate,~~ the switch faceplate comprising:

a piece of nonconductive material comprising at least one designated region on an outer face; and

a connector for connecting each of ~~to~~ the at least one touch switch module to the switch faceplate so that a touch switch interface cover of each of the at least one touch switch module either abuts the inner face of the switch faceplate, or is sufficiently close to the inner face of the switch faceplate, so as to operatively connect the touch switch module to a respective designated region of the switch faceplate so that a user can actuate the touch switch by touching the designated region of the switch faceplate.

14. A switch faceplate as claimed in claim 13 wherein the at least one designated region ~~switch faceplate~~ comprises at least one indentation for receiving a part of a user's finger to operate the touch switch circuit in one of the at least one ~~the~~ touch switch module.

15. A switch faceplate as claimed in claim 13 wherein the at least one designated region ~~switch faceplate~~ comprises at least one marking on a surface of the switch faceplate to indicate a region for a user to touch the faceplate to operate the touch switch circuit in one of the at least one ~~the~~ touch switch module.

~~16. A touch switch assembly as claimed in claim 12 wherein the switch faceplate comprises 2, 3, 4, 5, 6, 7 or 8 indentations for receiving a part of a user's finger to operate the touch switch circuit in the touch switch module.~~

16~~17~~. A switch faceplate as claimed in claim 14 wherein the at least one designated region comprises~~ing~~ 2, 3, 4, 5, 6, 7 or 8 indentations.

17. A switch faceplate as claimed in any one of claim 13 to 16, wherein the connector comprises a clip for connecting the switch faceplate to a faceplate back that in use is secured about an aperture in a surface, and a faceplate grid that also connects to the faceplate back, and the faceplate grid comprises at least one grid aperture for receiving a touch switch module, and each of the at least one touch switch modules is secured in one of the at least one grid apertures such that the respective touch switch interface cover of the each of the at least one touch switch module protrudes through the respective grid aperture to either abuts the inner face of the switch faceplate, or is sufficiently close to the inner face of the switch faceplate, so as to operatively connect the touch switch module to the respective at least one designated region of the switch faceplate.

18. A method of installing the touch switch assembly of any of claims 10 to 12~~a touch switch module behind a switch faceplate~~, the method comprising:

securing each of the at least one ~~the~~ touch switch module to a switch faceplate assembly; and

securing the switch faceplate assembly to a surface so as to cover an aperture in the surface.

19. The method as claimed in claim 18, wherein the step of securing each of the at least one touch switch module to the switch faceplate comprises:

securing each of the at least one touch switch module to the faceplate grid; and

securing the faceplate grid to the faceplate back;

and the step of securing the switch faceplate assembly to a surface so as to cover an aperture in the surface further comprises:

securing the faceplate back to a surface so as to cover an aperture in the surface; and

securing the switch faceplate to the faceplate back.

20~~19~~. A method as claimed in claim 19~~18~~ further comprising connecting electrical terminals of the at least one touch switch module to supply wires prior to the step of securing the ~~switch~~ faceplate back ~~assembly~~ to the surface.

21~~20~~. A housing for a touch switch module as claimed in any one of claims 1 to 9 for use with a switch faceplate assembly comprising a designated region on an outer face comprised of a non-conductive material, the housing comprising:

an access port for inserting a touch switch circuit within the housing and a touch switch interface; ~~and~~

a touch switch interface cover for covering a touch switch interface interfacing between the touch switch circuit and the designated region of the switch faceplate wherein the touch switch interface comprises a conductive element and a biasing element disposed between the conductive

element and the touch switch circuit for biasing the conductive element of the touch switch interface towards the touch switch interface cover; and

a plurality of connector elements which in use secure the housing with respect to the switch faceplate assembly, wherein when installed, the housing is secured so that the touch switch interface cover either abuts the inner face of the switch faceplate, or is sufficiently close to the inner face of the switch faceplate, so as to operatively connect the touch switch module to the designated region of the switch faceplate so that a user can actuate the touch switch by touching the designated region of the switch faceplate.

22. The housing as claimed in claim 21, wherein the plurality of connector elements are located around the periphery of the housing, and the switch faceplate assembly comprises a switch faceplate, a faceplate grid, and a faceplate back and in use the switch faceplate is connected to the faceplate back that is secured about an aperture in a surface, and the faceplate grid comprises at least one grid aperture and is secured to the faceplate back, and the connector elements engage with the faceplate grid to secure the touch switch module such that the touch switch interface cover protrudes through one of the at least one grid apertures.