

This document outlines the steps to be taken to configure both the Lighting Control Module and the ceiling mounted Sensors. This setup should only be undertaken once the system components are in place and correctly wired and this document assumes that to be the case.

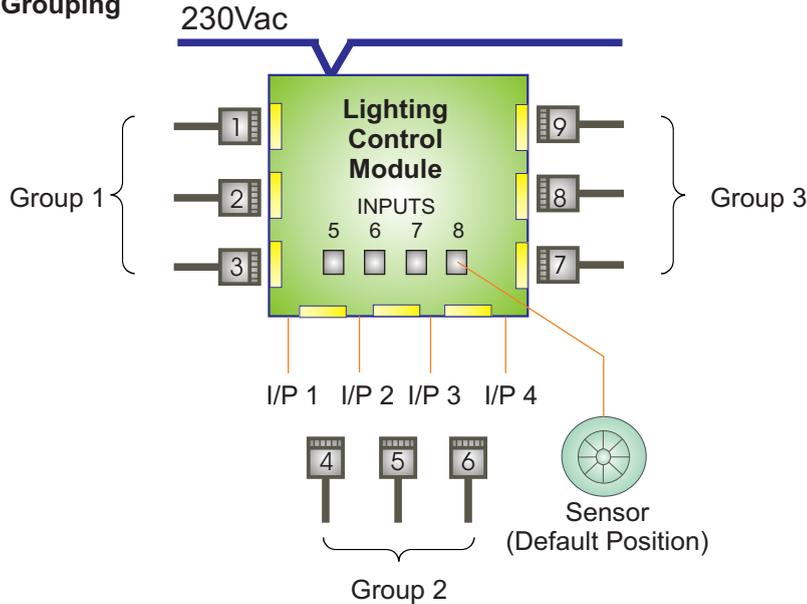
For details of system specification, wiring and installation see documents ALT1040, ALT1042 and AID1002.

Whilst not essential, the preferred method of set up is the Sensor first followed by the Lighting Control Module.

The Sensor used for Solar Control must be connected to Input Eight, Sensors used for Presence or Absence Detection can be fitted to any Input Five to Eight.

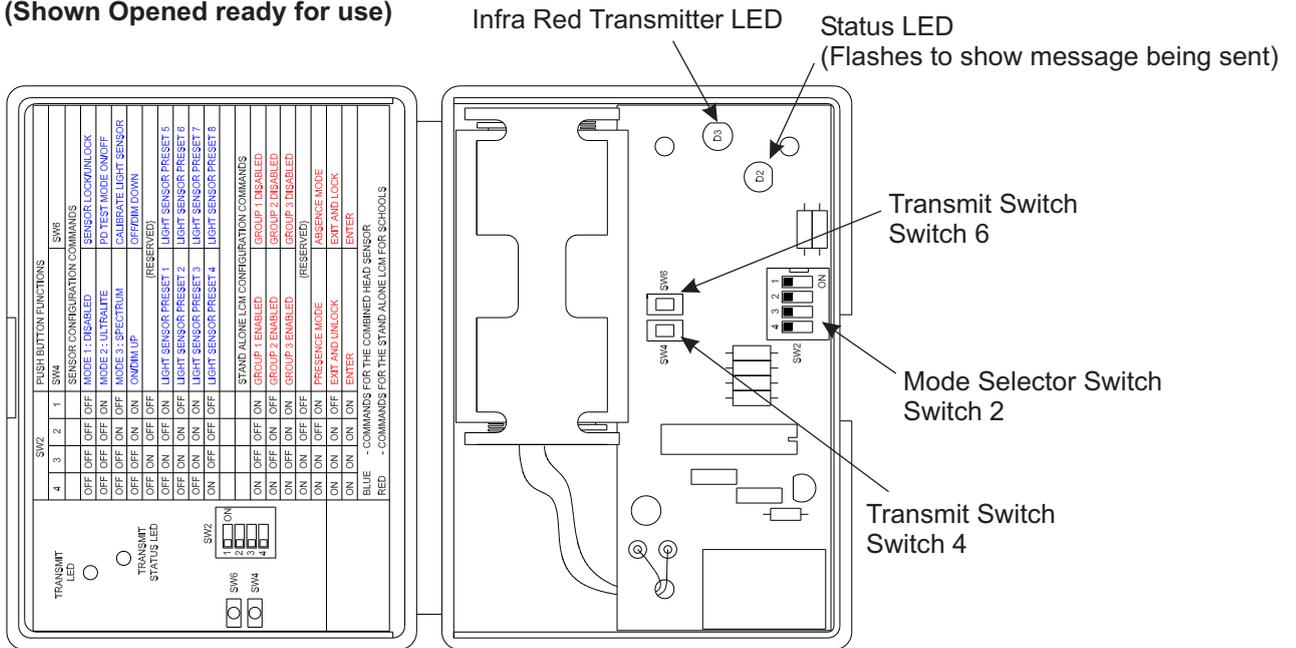
Inputs one, two and three are for the connection of local 2 way and Off retractive override switches that control each individual group e.g Input 1 controls Output Group 1 etc.

### Typical Output Grouping



The configuration transmitter referred to in the text is a hand held unit that can transmit various functions to the Sensors connected to Input Five to Eight of a Lighting Control Module, it is a Safety Extra Low Voltage Device that can be handled without the need for specialised safety precautions.

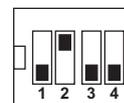
### Infrared Transmitter (Shown Opened ready for use)



**SENSOR CONFIGURATION**

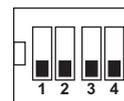
The LCM attempts to maintain the light level by varying the 'solar enabled' outputs, calibration of the light level sensor should be carried out using the following procedure.

1. Firstly set the sensor to operate in Spectrum mode (Mode 3). To do this set the DIL switches on the configuration transmitter to the following diagram:

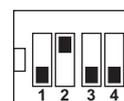


Whilst pointing the transmitter towards the sensor press and hold SW4 for 10 seconds, the sensor should acknowledge the command by flashing 3 times every 2 seconds for 20 seconds.

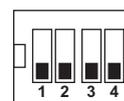
**NOTE:** if the sensor LED illuminates continuously the Sensor is locked. To unlock the sensor set all the DIL switches to OFF (see diagram) and within 30 seconds after Sensor power up push and hold SW6 for 10 seconds whilst pointing the transmitter at the sensor. The sensor should rapidly flash to acknowledge that the unlock code has been received. After unlocking the sensor return back to the beginning of item 1.



2. Using the wall switches adjust each of the output groups to achieve the desired lighting level. Adjusting the levels will temporary suspend any solar control therefore allowing the light sensor to be accurately setup.
3. Ensure sensor is set to operate in Spectrum mode as described at item 1, Press and hold SW6 on the configuration transmitter for 10 seconds whilst pointing it towards the sensor. The sensor LED will flash with equal ON/OFF time (this indicates that the sensor is auto-calibrating), during this process stand well away from the sensor to minimise the affect of reflected light on the sensor. Once sensor calibration is complete the sensor LED will stop flashing (this process can take up to 3 minutes).



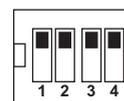
4. **OPTIONAL.** To lock the sensor and prevent any unintentional alterations, set all the DIL switches to OFF (see diagram) press and hold SW6 for 10 seconds whilst pointing the transmitting LED towards the sensor. The sensor LED should illuminate continuously for about 5 seconds and then flash its current mode (i.e. mode 3) a couple of times.



**NOTE:** For best results light sensor calibration should be at night with blinds shut in a fully furnished room.

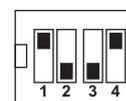
**Lighting Control Module (LCM) CONFIGURATION**

1. On the configuration transmitter, set all 4 DIL switches ON (see diagram) and then press and hold SW4 for 10 seconds whilst pointing the transmitting LED towards the sensor. The outputs should flash to acknowledge that the LCM has entered the configuration mode and the COMMS LED on the LCM should be flashing once a second. After the outputs have flashed they should all remain on. In this state, output groups at 100% brightness are solar controlled, whilst output groups dimmed to 10% are not.

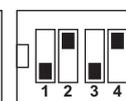


**NOTE:** If the outputs don't flash and the Lighting Control Module COMMS LED is continuously lit, the LCM is locked, the configuration mode can then only be accessed within 5 minutes after power-up.

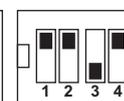
2. To select which output groups are to be solar enabled or disabled select the desired group by means of the DIL switches in the Configuration Transmitter, (see diagrams) pressing either SW4 to enable or SW6 to disable solar control for that group. The output groups will change between 10% (disabled) and 100% (enabled).



Group 1

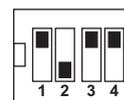


Group 2



Group 3

3. For movement detection mode set DIL switches as shown, press SW4 for presence and SW6 for absence mode, the outputs will flash to acknowledge this command. At this point the LCM is operating in Presence/Absence test mode and the functionality can be checked.



**NOTE:** In absence mode the user will have to press the wall switches to bring the lights on once the 10 second time out has occurred. The COMMS LED on the LCM should be flashing twice a second in this mode.

4. Set the DIL (see diagram) press SW4 to exit the LCM configuration mode or SW6 to exit and

