PIR Motion Sensor MPPL-MS
Installation Manual

Important – please take the following into consideration:

1. Don't position the detectors facing windows
2. Don't position in direct sunlight
3. Don't position in conservatories or draughty areas
4. Don't position above heat sources, radiators or boilers
5. Don't let pets roam into the area covered by the sensors when the system is turned On
6. Wherever possible, mount the sensor in the corner of the room so that the usual pattern of movement is across the detection pattern. PIR Motion Sensors are more sensitive to movement across the sensor, rather than directly towards it.

Installation:

Loosen the screw from the bottom of the housing and remove the front part. Then, loosen at the top right, the screw that holds the circuit board and gently prize the circuit board away from the housing. Securely mount the rear housing at the desired location. The sensor may be mounted flat or in a corner. For max detection range, place approx. 2.3 M from the floor. Allow at least 3 cm between the PIR and the ceiling for servicing.

Fit 2 x AA Batteries, making sure they are in the correct polarity (It is recommended that you change batteries every 6-12 months). Replace the front of the housing, slide the switch on the side of the unit UP to turn battery power on and wait for at least 1 minute. After this period, the detector will have settled down. Walk in front of the sensor, the LED will illuminate and the sensor will transmit on Channel 1. Now, remove the front of the housing again and change the jumper settings below as required:

Jumper Settings:

Jumper 1 (J1) - This selects whether the Sensor will transmit on Channel 1 or Channel 2. The default setting is Channel 1 with no link fitted. Place the link over Jumper 1 if you wish the sensor to transmit on Channel 2.

Jumper 2 (J2) - This selects whether the LED lights up on motion detect. The default setting is On, with no link fitted. If you don't want the LED to light up each time motion is detected, place the link over Jumper 2. This will also help improve battery life.

Jumper 3 (J3) – This selects Power Save Mode On or Off. The default setting is Off, with no link fitted. With the power save mode off, the sensor's LED will light up (provided J2 is off – see above) and the sensor will transmit each time it detects motion. With power save mode On, then, after initial motion detection, the sensor will ignore all further detections of motion for 3 minutes, thereby substantially increasing battery life. If motion occurs during this initial 3 minutes, the 3 minute counter will re-set, thereby extending this non-transmit period. Place the link on J3 to select Power Save Mode On.

Jumper 4 (J4) – This selects Low Battery Detection and Transmission On or Off. The default setting is On, with the link fitted. Remove the link on J4 to select Low Battery Detection Off. If low Battery detection is On, then, when the battery reaches around 2.6V, the sensor will send a transmission on Channel 3 (repeated every 6 hrs) and it's LED will start to flash slowly, every 10 seconds. You should change batteries immediately.

Long 4 way Jumper (T1) – This selects Pulse Count On or Off. This reduces detection sensitivity and is useful if you start to experience false alarms. The default setting is Off. In the Off position (link placed on the two pins to the left marked EF), the sensor will send an immediate transmission upon motion detection. However, if the link is placed on the two middle pins (FG), the sensor now needs to see 2 separate motion detections within 15 seconds to activate a transmission. If the link is placed on the two right hand pins (GH), the sensor requires 3 separate motion detections within 15 seconds.