4600

12m WIDE ANGLE WIRELESS PIR

The 4600 is a Class 6 (Supervised) wireless PIR, for operation with the FM4000 wireless control panel. A mercury tilt switch gives additional tamper protection to detect attempted removal of the detector from the wall.
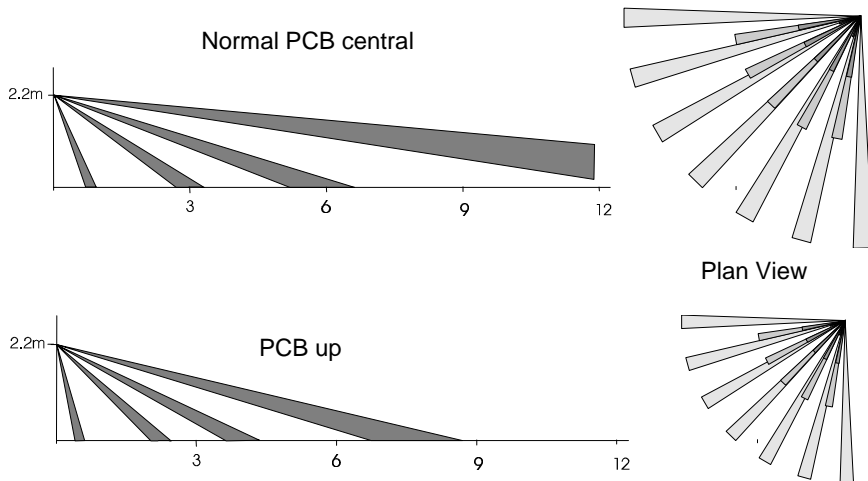
INHIBIT To prevent repeated transmissions and resultant battery drain, the PIR incorporates a 2 minute inhibit timer. When movement is detected the alarm is transmitted and then further transmissions are inhibited for 2 minutes or until the PIR has seen no movement for two minutes.

PULSE COUNT FEATURE A unique memory system is employed which stores the pulses from the piroelectric sensor and analyses these pulses before triggering an alarm. This system helps to overcome false alarms from many of the common heat sources.
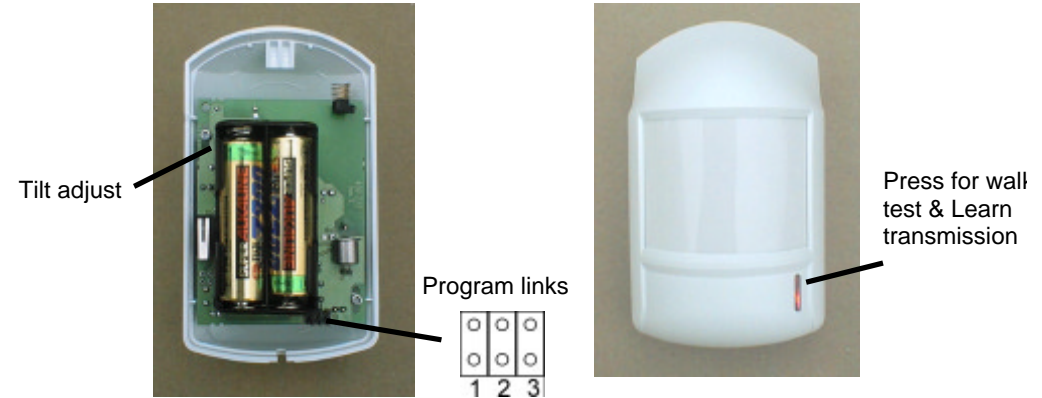
RECOMMENDED BATTERIES Two AA size Alkaline batteries are required, Eveready or Duracell are recommended. (Available from FM Electronics)

MOUNTING Corner mount the detector at a height of 2.2 meters so that anyone entering the room passes across the detection beams.
Do not mount so that the beams are looking at a window, or heat sources such as a boiler, radiator etc.

TILT ADJUSTMENT The detection range and beam location can be controlled by adjusting the angle of tilt. This is accomplished by loosening the two PCB fixing screws and sliding the PCB up or down as shown below.

Normal PCB central

Plan View

PCB up

WALK TEST SWITCH The light guide on the front of the detector has two functions:
1. When pressed for one second sends a Learn transmission to the control panel, enabling the device to be learned in and RSSI measurements taken.
2. Provides a user walk test facility for one minute.

Tilt adjust

Press for walk test & Learn transmission

Program links

PROGRAM LINKS
NO LINKS FITTED	-	Normal (pulse count 2 mode)
LINK 1 FITTED	-	No pulse count
LINK 2 FITTED	-	Pulse count = 4
LINK 3 FITTED	-	Overrides the 2 minute inhibit. With this link fitted the PIR will transmit again after 2 minutes with continuous movement present. Link 3 is unaffected by links one or two.

ADDING A DETECTOR TO THE FM4000 CONTROL PANEL
1. Connect the batteries. The detector will take approx. 6 minutes to settle. So although you can program it, the PIR will not detect movement for 6 minutes.

2. Enter the engineers program by keying in 4679. (The alarm LED will illuminate to indicate that you are in engineer mode).

3. Key in the number of the zone to which the detector is to be allocated. I.e. 01 for zone 1. 08 for zone 8.

4. Press the walk test button. The control panel will bleep twice and zone 1 led will illuminate to indicate that one detector is programmed onto that zone.

5. Press the Full Set key to accept.

6. Key in 48 to exit engineer programming.