

Instructions

PIR motion sensor - (PIR)

FREQUENCY PRECISION[®]
SENSORS & PAGERS

An infrared motion sensor alerting to movement

The PIR movement sensor is a small battery-powered motion sensor that can be positioned in a variety of configurations to alert to movement through a doorway, corridor, next to a bed or over a wider area.

What's Inside

Your PIR sensor is supplied either to plug into your existing call system (**Plug-Matched**) or wirelessly linked to our pagers (**Pager-Linked**). The Plug-Matched package will contain a matched lead to connect into your call system. Both models include a rubber case and metal plate to attach the sensor on to a surface or wall.



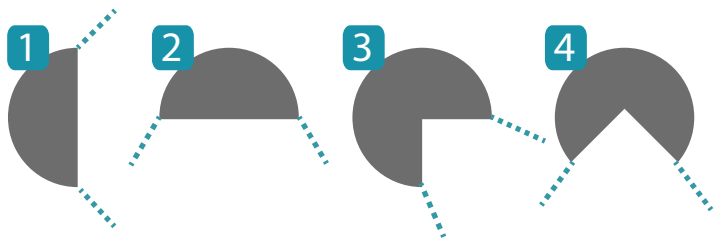
PIR SENSOR

Setting up

The sensor works using the same infrared technology as the systems used to turn on outdoor lighting. The sensor is positioned pointing towards the area where movement detection is required. Placed in a hallway the sensor can detect movement through a doorway or positioned next to a bed it can detect bed leaving. When movement is detected the sensor sends the alert signal either to your pager or existing call system. The system has an adjustable motion sensor. By adjusting the eyelids over the sensor it is possible to steer the sensor's beam so that it only detects over a certain area. The sensor can work in both darkness and light. **Turn on the sensor using the on/off control switch, the light will flash. Wait 3 seconds for it to initiate. For plug matched systems plug in to your call system using the CALL SENSOR PORT. The second socket will allow you to plug in an additional sensor or press button to alert the system.**



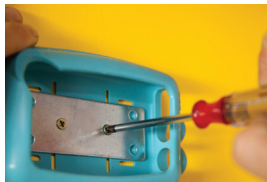
ADJUSTABLE PIR



Adjusting the eye

The 'eye' has two eyelids which move to steer the angle of the detection beam. They can be rotated to give a very tight angle or opened up to give a very wide detection field. By choosing the right position for the sensor and setting the angle, any detection setup is possible. The diagram above demonstrates some common configurations. **Setup1** is the sensor position detecting movement to the right. **Setup2** gives a wide detection area across a room or hallway. Positioned at head height on a wall, movement across the whole room is detected. **Setup3** gives detection below and to the right and **Setup4** will detect movement in front of and below the sensor. The beam has a long range of over ten meters. Closing the eyelids totally will stop the sensor from detecting, as will switching the sensor off. Experiment with position and setup for the perfect system.

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Rubber Case

Attach the PIR sensor to a wall or surface using the supplied rubber case and metal plate. Screw in the metal plate through the rubber case to fix the case in position as show in the pictures above. The sensor then fits into the case and can be easily removed to replace the batteries. To detect over a large area position the sensor high up. To reduce the field position it lower down.

Battery

The PIR sensor has a battery compartment on the rear of the plastic enclosure. Take the sensor out of the rubber case and remove the cover to change the two AA batteries. The battery should last for at least one month depending on use. For best results we recommend Duracell, Alkaline, high quality batteries. We can supply these at trade prices.

Coding (Pager-linked Only)

Check the ID sticker on the front of the sensor. It should correspond to the pager that you have. If you are having problems and you have a large, complex system it is possible that the control box is linked to a different pager. This is indicated through a colour coding system. A yellow ID sticker means it is linked to a pager with a yellow sticker.

Safety Remember, daily system tests should be carried out to ensure correct function of the unit. Usage should be incorporated within safety manuals and procedures. Range tests should be carried out at least once a week, more often if critical criteria apply. This should involve testing the unit past its required range. If the unit has been dropped or it is worn by a person involved in an accident the unit should be tested again before re-use.

Care DO NOT subject this equipment to: Mechanical shock, Excessive humidity, Extremes of temperatures, Corrosive Liquids. This equipment is designed primarily for indoor use and is not water resistant. It must not be used in classified hazardous areas including areas containing explosive or flammable vapours. Consult your local product dealer for further information.

Specifications:

Control box - pager-linked:

Power supply	2x AA Alkaline Battery (Removable, not rechargeable)
Frequency	433.92MHz
Bit Rate	1200 - 7uV/M
Code format	POCSAG
Dimensions (pager-linked):	147mm x 88mm 25mm

Control box - plug-matched:

Power supply	2x AA Alkaline Battery (Removable, not rechargeable)
Dimensions (plug-matched):	117mm x 78mm 24mm
Weight with battery	140g

Compliance:

R&TTE Directive 1999/5/EC
EMC Directive(89/336/EEC) EN 301 489 -1 V 1. 4. 1
Low Voltage Directive (7323/EEC) EN60950 : 2000
ETSI EN 300 220-1 V2 (2006 - 04)
ROHS II compliant

Liability Frequency Precision does not accept any liability for any damage or injury, howsoever caused as a result of misuse of this equipment. It is the responsibility of the user to ensure that the equipment is operated in the manner for which it was intended and that it is the correct item of equipment for the required task.

All systems can fail and it is the responsibility of the user to carry out regular tests and to determine the suitability of this equipment for any application.

Repair and replacement Frequency Precision will refund payment for any unit returned within 30 days of purchase as unsuitable for the intended purpose. Un-damaged units will be repaired free of charge within the first 12 months.

Literature Frequency Precision Ltd operates a policy of continual improvement and therefore reserves the right to modify and change any specification without prior notice.

While every possible care has been taken in the preparation of its manual, we do not accept any liability for the technical or typographical errors or omissions contained herein, nor for incidental or consequential damages arising from the use of the material.

Disposal At the end of the working life of the product it must not be disposed of with household waste but returned to Frequency Precision Ltd or disposed of at a collection point for the re-cycling of electrical and electronic equipment.