

# PIR (passive infra red) detector 869MHz

## What is the PIR?

The PIR detector provides superior motion detection and reliable long-term operation whilst minimising false calls. The lightweight PIR can be wall mounted without the need for screw fixings or drilling and offers simple Plug & Play registration, together with the flexibility to allow for free movement of pets around a property, to prevent false alarm calls. The wireless PIR can be used to provide the following:

**Intruder alarm monitoring** - The PIR can be used to detect intruders, creating an ideal monitored intruder alarm solution when used in conjunction with Lifeline home units or Tunstall telecare enabled systems. When an intruder is detected, an alarm call is made to the monitoring centre (silently if required), so that the situation can be clarified and a key holder or the emergency services summoned immediately, if necessary.

**Inactivity monitoring** - The PIR can also be used to detect inactivity so that if movement has not been detected within a home over a predetermined time period, an alarm will be raised to the monitoring centre.

**Combination monitoring** - The PIR can be used to provide both intruder and inactivity monitoring simultaneously thereby reducing costs, while significantly increasing levels of safety and security for the user.

## How does it work?

Using Plug & Play technology, the PIR can be registered to Lifeline Home Units or other Tunstall telecare enabled systems by simply activating it. Once movement is detected, the PIR will generate an alarm call to either a personal recipient or 24 hour monitoring centre, where the type of alarm raised can be identified and the most appropriate course of action taken.



## Why is it needed?

**Intruder detection** - A study by the Home Office stated that elderly victims of burglary decline in health faster than non-victims of a similar age and the impact of burglary is typically greater. Two years after a burglary, victims are 2.4 times more likely to have died or be in residential care than their non-burgled neighbours.

**Inactivity monitoring** - Falls are the principal cause of injury leading to hospital admission and death among the over-65s in the UK. It is estimated that one in three people aged 65 and over experience a fall at least once a year, rising to one in two among those over 80 years old. Inactivity monitoring can provide an essential element of a falls detection solution in order to minimise the effect of a fall on a victim by reducing the delay in providing medical treatment.

## Who is it for?

The PIR helps to provide security for any home or commercial premises, 24 hours a day, whilst also providing the reassurance of personal inactivity monitoring.

## Features and benefits

- **Plug & Play registration** - provides easy installation by simple activation once the Lifeline or Telecare Overlay system is in programming mode
- **No screws wall mounting option** - the PIR can be wall mounted without screw fixings or drilling for ease of installation
- **Automatic 'Walk Test' mode** - allows simple range checking on installation to ensure complete coverage within a room
- **Transmission to Class 1 radio receiver** - ensures that PIR signals are reliably received, when used in conjunction with Tunstall telecare enabled systems
- **European Social Alarm Frequency operation** - utilises the dedicated 869MHz European social alarm frequency for reliable, future proofed operation
- **Automatic low battery warnings** - provides a warning to the monitoring centre, when the battery requires changing
- **Simple entry/exit mode assignment** - allows easy installation and programming at the flick of a switch or the press of a button
- **'Pet Alley' facility** - raises the beam of the PIR above floor height to allow pets to wander freely throughout a dwelling, without raising an alarm
- **Anti-tamper alarm** - the PIR will raise an alarm call if an intruder attempts to open the casing

## Technical details

Weight:	109g
Dimensions:	60 x 90 x 45mm (WxHxD)
Radio Frequency:	869.2125 MHz UHF integral transmitter
Radio Range:	Up to 50 metres (typical)
Power:	Lithium 3v cell
Battery Life:	18 months

## Environmental

Operating temp range:	Operating -10°C to +50°C
Environmental humidity:	95% maximum

## Standards

EMC:	ETS 300 683:1997, EN55022:1998, ETSI EN 301-489-1 (08-2000)
Safety:	EN 60950:2000
Radio:	EN 300 220-3 (09-2000)
CE:	Compliant
Social alarm:	EN 50130-4:1995 + Amendment A1:1998
Design, Manufacture, Installation and Service:	ISO9001: 2000
Part numbers:	67005/45

Note: A Class 1 receiver is necessary for safety critical short range device communications media i.e. for devices servicing systems where failure may result in a physical risk to a person.

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