

Fast PIR

for use with Virtual sensors and ADLife

What is the Fast PIR?

Tunstall's wireless Passive Infra Red (PIR) detectors deliver superior motion detection and reliable long term operation whilst minimising false alarms. The wall mounted Fast PIR has been enhanced to enable its use on the new features of the Lifeline Vi+.

Each Fast PIR can be used simultaneously for the following applications. The standard PIR (67005/45) can be used where only intruder or inactivity monitoring is required.

Virtual Sensors - by combining data from individual sensors, virtual sensor processing produces more intelligent telecare alarms and/or local alerts. For example, if a client has a bed occupancy sensor when they leave their bed a timer starts and will raise an alarm if they haven't returned within a pre-defined time period. Using virtual sensors, if the client remains active within the property (e.g. activating Fast PIRs) the timer can continue to be reset each time therefore reducing false calls.

ADLife - enables a client's activities of daily living, such as room transitions, to be monitored and where deviations from the norm occur action can be taken before an incident occurs. The use of Fast PIRs in particular allows room transitions within the client's home to be monitored this includes the number and duration of visits to each room during the day and night which may alert, for example, to an increasing use of the bathroom or an increasing tendency to sleep in the living room.



Intruder Alarm - the PIR can be used to detect intruders, making it the ideal monitored intruder alarm solution when linked with the Lifeline Vi+ home unit. A call is made to the monitoring centre (silent if required) so that a key holder or the emergency services may be summoned immediately.

Inactivity Detector - the PIR can also be used to detect inactivity, so that, if the PIR hasn't identified movement in the home within a predetermined time period, a call will be raised to the monitoring centre via the Lifeline Vi+ home unit.

How does it work?

Using plug and play, the PIR can be registered to a Lifeline Vi+ by simple activation. On activation, the PIR sends a signal to the Tunstall home unit. The home unit then processes this information and if necessary places an alarm call to the 24 hour monitoring centre, which identifies the type of alarm raised, allowing the operator to take the most appropriate action.

Features and benefits

- **Plug and Play registration** - offering ease of installation when linked to the Lifeline Connect+ home units
- **Transmission to Class 1 radio receiver** - ensuring that signals from sensors are reliably received, when linked to the Lifeline Vi+
- **New frequency** - operates on the dedicated European 869 MHz social alarm frequency for reliable, future proofed operation
- **Radio range** - up to 50m, ideal for the largest rooms
- **Pet adjustment** - can be adjusted to allow for the movement of pets, therefore minimising the chance of false calls
- **Automatic low battery warnings** - ensuring monitoring centre is alerted if battery needs replacing
- **PIR coverage** - 15m x 6m wide and 18m x 2m long (dependent on placement)
- **Integral 9V power** - no wiring is required
- **1 year battery life** - under normal operating conditions (battery is also user replaceable)

Technical details

Weight:	142g
Radio frequency:	869.2125 MHz UHF integral transmitter
Dimensions:	114 x 70 x 76mm (WxHxD)
Power:	9V – PP3 Lithium Battery
Radio range:	50 metres free space
Battery life:	Approximately 1 year, dependent upon the level of activity within the PIR's detection range

Environmental

Temperature:	Operating -10C to +50C
Environmental humidity:	95% maximum

Standards

EMC:	ETSI EN 300 683:1997 (Class 1), EN55022:1998, ETSI EN 301 489-1 (2000-08)
Safety:	EN 60950:2000
Radio:	ETSI EN 300 220-2 (2007) Class 1
CE:	Compliant
Social alarm:	EN 50130-4:1995 + Amendment A1:1998
Manufacture, design, service and installation:	ISO9001:2000
Part Number:	67005/89

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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