

Alert-iT Care Alarms
(iTs Designs Ltd)
Fernie House,
Coalville Business Park,
Leicestershire, LE67 3NR.
Tel: +44 (0) 1530 239 900



Product Fact Sheet

PIR Movement Sensor

[PIR Model #: **P210**] [Keyfob Model #: **P211**]



1 Product Description

The Alert-iT PIR is a movement sensor used to alert caregivers to movements such as a person leaving their bed or room.

The device sends the alarm notifications via Alert-iTs Safelink™ radio protocol or via a wired nurse call output.

Note: The keyfob's are not individually addressed, any keyfob can be used to arm or disarm any PIR. However the PIR can be armed and disarmed using the button underneath without the keyfob.

2 Fact Sheet Revision History

Issue	Changes	Author	Date	Approver	Date
1	First Release	J. Rider	10/Mar/2025	T. Bullars	10/Mar/2025

3 Product Variants (PIR)

3.1 Hardware Variant

The following models are available.

Letter Code	Radio Band	Branding
P210AA	Radio Only (434.075 MHz)	Alert-iT
P210BA	Wired Nurse-call Output Only	Alert-iT
P210CA	Radio Only (869.2125 MHz)	Alert-iT

3.2 Configurations

All of the above variants can be ordered or re-configured using profile editor to the following configurations;

Configuration	Description
C0	Default (Radio = Latched Alarm. Wired = Non-Latched)

The full model name should be specified in the following format when ordered: e.g. “**P210AA-C1**”.

4 Product Variants (Keyfob)

The keyfob (optional extra) has the following variants:

Letter Code	Branding
P211A	Alert-iT

5 Product Specifications (PIR)

5.1 Inputs

Function	Input Type	Description
Press Button	Tactile Press Switch	This button is used to arm or disarm the device as well as resetting alarms.
IR Sensor	Infra-red sensor for keyfob	Receives the arm/disarm signal from the keyfob.
PIR Sensor	Infra-red sensor for movement	Used to detect movement. Range = 4m. FOV = 105° by 45°.
USB	Micro USB Type-B	Used to re-configure the device.

5.2 Outputs

Function	Output Type	Description
Alarm Light	Red LED	Blinks every 2 seconds when alarm is active. Blinks every 4 seconds when battery is low.
Status Light	Green LED	Blinks every second during the arming period. Blinks every 6 seconds once armed.
Radio (P210A / P210C Only)	P210A* = 434.075 MHz P210C* = 869.2125 MHz	600 meters range (Line of sight). 600 meters range (Line of sight).
Wired Output (P210B Only)	RJ12	Pin 1 = Alarm Output: Normally Closed. Pin 3 = Alarm Output: Normally Open. Pin 4 = Alarm Output: Common.
Audible Alarm	Piezo Sounder	Produces two-tone beep when an alarm is reset. Alarm tunes are disabled by default.

5.3 Electrical

Function	Description
Input Voltage	N/A. Battery powered only.
Battery life	1 to 2 years (dependant on number of alarm cycles).
Charge Time	N/A. Not rechargeable.
Batteries	2x AA 1.5V Alkaline (LR06) Batteries (Non-Rechargeable).

5.4 Mechanical

Function	Description
Sealing	IP20 (Not waterproof)
Case Material	White ABS. Anti-microbial.
Weight	160g (Including batteries)
Height	89mm
Width	89mm
Depth	30mm
Fascia Material	Microban Polyester. ISO22196.

6 Product Specifications (Keyfob)

6.1 Inputs

Function	Input Type	Description
Arm / On Button	Tactile Press Switch	This button is used to arm the device.
Disarm / Off Button	Tactile Press Switch	This button is used to disarm the device as well as resetting alarms.

6.2 Outputs

Function	Output Type	Description
Status Light	Red LED	Blinks while either button is held.
IR Output	IR LED	Used to arm or disarm the PIR. Range = 4m. FOV = 90°.

6.3 Electrical

Function	Description
Batteries	3x LR44 1.5V Alkaline Batteries
Battery life	2500 arm / disarm cycles (~1 to 2 years)

6.4 Mechanical

Function	Description
Sealing	IP20 (Not waterproof)
Case Material	White ABS.
Weight	160g (Including batteries)
Height	74mm
Width	40mm
Depth	18mm

7 Operating Environment

Description	Specification
Operating Temp	5°C to 35°C (Used indoors)
Storage Temperature	-30°C to 50°C
Humidity	5% to 90% max. (non-condensing)

8 Certification

Description	Specification
Markings	CE, UKCA
RoHS2 Compliant	Yes