869MHz Alerting Floor PIR Detector

Trusted Technology
Caring for People

DIGITALLY ENABLED



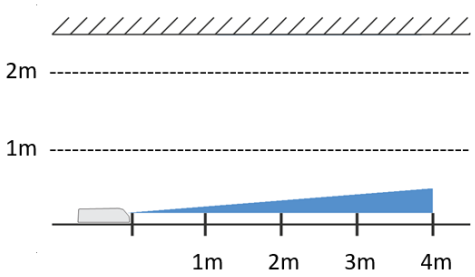
- Portable trigger device
- Used to support the care of dementia patients
- For movement alert applications
- Compatible with Reach IP, Advent XT2, Carer Response and Touchsafe Pro V4.01 onward
- Passive infrared detector
- Free standing floor or table mounting
- Operation and detection LED indicators
- Red alarm transmit LED indicator
- Green alarm received LED indicator
- 2 user replaceable 1.5V AA Alkaline batteries
- Low battery warning
- Operating Temperature: +5°C to +55°C
- Telecare Transceiver: 869.2125MHz
- Digital Heartbeat
- Weight: 128 grams inc. batteries
- Dimensions: 128mm x 57mm x 35mm (HxWxD)
- Product Code: ZXT860

This PIR detector monitors the presence of people and results in an alarm call being sent to the Care personnel.

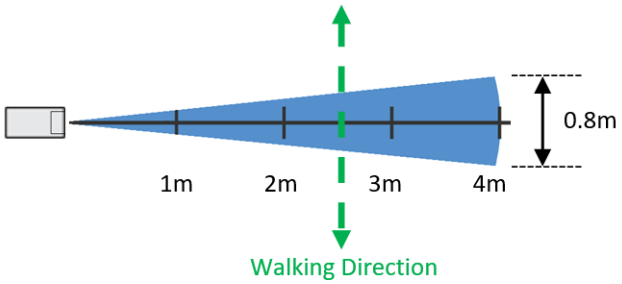
Positioning

The PIR is for indoor use only, it can be simply placed free-standing on the floor or on a table.
The detection area is about 4 metres within a narrow detection angle, see below....

Floor Mounted Vertical Detection Area



Horizontal Detection Area



Placement & Safety Instructions

- Do not place items in front of the PIR detector which may restrict its field of view
- Do not expose the PIR detector to direct sunlight or powerful lights
- Do not expose the PIR detector to rapid variation in temperature
- Do not expose the PIR detector to wind, air conditioning or heating
- Do not expose the PIR detector to dripping or splashing water
- Do not drop the PIR detector or expose to high vibration or shock
- Do not use abrasive or corrosive cleaning agents or detergents when cleaning the PIR detector.
- Do not disassemble the PIR detector or attempt to repair it yourself.
- This product should not be a substitute for routine visual monitoring by a Carer.

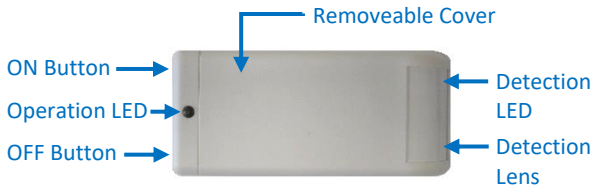
Tynetec, a business unit of Legrand Electric Ltd
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Product Overview



Operation LED; this will indicate when the PIR is switched on/off, when it is in walk test mode, if the batteries are running low and when an alarm is transmitted/received. *Note: this can be switched off with DIP switch 6.*
Detection LED; this will indicate when movement is detected. *Note: this can be switched off with DIP switch 7.*

Fitting the PIR Batteries

To fit the batteries, gently squeeze both sides of the PIR in the areas marked ▷ and slide the top cover off the base…



Start-up Mode

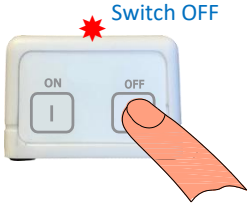
When the batteries are first fitted the PIR will enter Start-up Mode and the Operation LED will **flash green** for 45 seconds. *Note: there is no movement detection or alarm transmissions during the Start-up period.*
If the batteries are low, the Operation LED will **flash red** during the Start-up period. Replace both batteries.
Note: the batteries should be removed if the PIR is being stored or if it is not being used for a long period of time.

Normal Operation



To switch the PIR ON;
Press and hold the ON button until the Operation LED lights **green** then release.

All movement will be ignored for 15 seconds giving time to vacate the detection area without raising an alarm.
There is also a delay of 15 seconds after movement is detected until an alarm is transmitted - this gives time to enter and switch the PIR OFF without raising an alarm.
Note: the entry/exit delay can be overridden for instant arm/alarm by selecting the Factory Config setting – DIP switch 1 ON.



To switch the PIR OFF;
Press and hold the OFF button until the Operation LED lights **red** then release.

Walk Test Mode

This is used to check the detection area of the PIR.
To enter the walk test mode; press and hold the ON button until the Operation LED lights **steady green** and keep holding until it changes to **red** then release the button.
The Operation LED will then **flash red** once every 3 seconds during walk test mode.
Walk in the intended PIR coverage area and check the Detection LED behind the PIR lens **flashes red** when movement is detected.
To exit the walk test mode; press the ON or OFF button at any time and the PIR will revert to ON mode, or if no movement is detected for 60 seconds the PIR will revert to ON mode automatically.
Note: there are no radio alarm transmissions during walk test mode and the Detection/Operation LED's are always enabled.

Low Battery Check

When the PIR is switched ON the Operation LED will normally light **green**, if the batteries are low this will be followed by **5 quick red flashes**. Always replace both batteries together: **AA size 1.5V Alkaline (LR6)**.
A low battery check is also performed when the batteries are first fitted – see **Start-up Mode** above.
The PIR automatically checks the battery level every 24 hours. A low battery condition will be reported automatically to the Alarm Receiving Centre (ARC).
The batteries should be replaced within 7 days.
The Operation LED does not indicate when this alarm is sent. The first battery check is performed 1-10 minutes after Start-up. A battery check is also performed before each radio transmission.

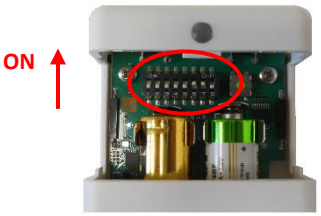
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PIR Configuration DIP Switches

Remove the top cover to access the 8 way configuration DIP switch on the PCB inside…

Use a terminal screwdriver to set the DIP switches



DIP No.	Function	Default
1	Configuration Settings	ON
2	Power Saving Mode	OFF
3	Boundary Alarm Mode	OFF
4	Boundary Alarm Exit Delay	OFF
5	PIR Detection Sensitivity	OFF
6	Operation LED after Alarm	ON
7	Detection LED after Movement	ON
8	Disable OFF button & Alarm Delay	OFF

DIP Switch 1 – Configuration Settings

OFF: PIR configuration set using DIP switches 2 to 8.
ON: PIR uses the Factory Config below and DIP switches 2 to 8 are ignored.

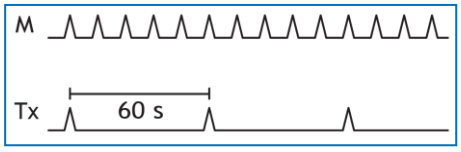
Function	Factory Config (DIP1 ON)
Power Saving Mode	ON
No movement before new alarm	20 Secs
Boundary Alarm Mode	Disabled
IR Detection Sensitivity	High
Operation LED after Alarm	ON
Detection LED after Movement	ON
OFF Button	Enabled
Exit Delay	0 Secs
Alarm Delay	0 Secs

Note: with DIP 1 ON there is no exit/alarm delay. The PIR must therefore be carefully positioned so a Carer can switch the PIR on/off without entering the detection area. Poor placement in this mode will result in false activations when Carers leave/enter the room.

DIP Switch 2 – Power Saving Mode

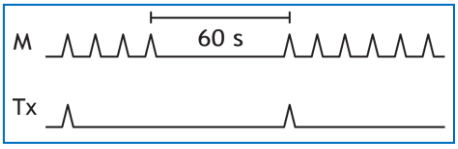
Transmitting alarms consumes battery power.
The PIR can be set to Power Saving Mode to extend battery life.
OFF: normal operation, the PIR sends an alarm (Tx) after the first movement detection (M) and will ignore new movement detections (M) for 60 seconds before a new alarm is sent.

Normal Operation



ON: power saving mode, the PIR sends an alarm (Tx) after the first movement detection (M) and there must be a period of 60 seconds with no movement detection (M) before a new alarm is sent*.

Power Saving



**Note: the period of no movement is reduced to 20 seconds with the Factory Config setting – DIP switch 1 ON.*

DIP Switch 3 – Boundary Alarm Mode

NOT USED.

DIP Switch 4 – Boundary Alarm Exit Delay

NOT USED.

DIP Switch 5 – PIR Detection Sensitivity

It is possible to adjust the sensitivity of the PIR detector by configuring the number of movement detection pulses that are needed before an alarm is sent.
OFF: high sensitivity.
ON: low sensitivity.
Note: DIP switch 5 is ignored if DIP switch 3 is ON and sensitivity is automatically set to high.

DIP Switch 6 – Operation LED indication after Alarm

OFF: no indication when an alarm is sent.
ON: operation LED will indicate when an alarm is sent.
Note: the Operation LED will always indicate during Start-up Mode and Walk Test Mode regardless of this setting.

DIP Switch 7 – Detection LED indication after Movement

OFF: no indication when movement is detected.
ON: detection LED will indicate when movement is detected.
Note: the Detection LED will always indicate during Walk Test Mode regardless of this setting.

DIP Switch 8 – Disable OFF Button & Alarm Delay

The function of DIP 8 depends on the position of DIP 3. With DIP 3 OFF (Boundary Alarm not activated) – the OFF button can be configured, and alarm delays are set.
DIP 8 OFF: the PIR can be turned off with the OFF button. This means Carers can enter the room and press the OFF button within 15 seconds to prevent an alarm from being sent. By pressing the ON button when unit is in OFF mode, movement alarms are ignored during the first 15 seconds allowing time for Carers to leave the room (i.e. when being used as a bed alarm).
DIP 8 ON: the PIR cannot be turned off with the OFF button, this will prevent users from unintentionally turning the PIR off. There is no alarm delay.

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Free Standing Installation

1. Remove the top cover and fit the two AA batteries as indicated on the PCB.
2. The Operation LED will **flash green** for 45 seconds on Start-up.
3. Slide the top cover back into place and click closed.
4. Position the PIR for best coverage.

Out of Range Notification (Reach IP)

The Reach IP can monitor all radio peripheral devices to determine whether they have been damaged or removed from an installation. Should the Reach IP be unable to detect a device's heartbeat it will automatically generate a "radio out of range" notification. Firstly, investigate if there's a genuine reason for the alert, if not, arrange for the peripheral device to be replaced immediately.
The "Radio out of range timer" can be set from 30 hours to 99999 hours in Pulse CMP. "Radio supervision" can be disabled by unchecking the tick box associated with each peripheral device in Pulse CMP.

Maintenance

No routine maintenance is required; however, a walk test should be performed once a month to verify operation. PIR's are not as susceptible to dust and contamination as some detectors but it is still recommended to clean them periodically. PIR's can be dusted or wiped clean with a soft cloth, dampened slightly with mild soapy water. Do not clean with detergents, solvents, or polish.

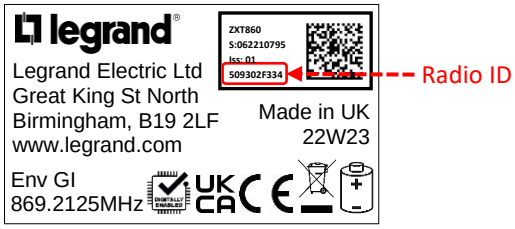
Disposal

Waste electrical products should not be disposed of with normal household waste. The PIR motion detector is ideally suited for disposal within the waste electronic and electrical equipment (WEEE) recycling scheme. Please recycle where facilities exist. Check with your local authority or contact your supplier for recycling/disposal advice.

Telecare Radio ID

The PIR motion detector includes a radio transceiver to communicate with the Reach IP, XT2 or Carer Response.

The Radio ID is a 10-digit code printed on the PIR label…



Registering the PIR onto a Reach IP

Login to Pulse CMP (www.tynetecpulse.com) and enter the Reach IP Serial No. in the **ALARM UNIT** view. Press the **Accessories** button and enter the Radio ID code, Location and Equipment type. Press **Save** then ↻ **Synchronize**.
IMPORTANT: when the PIR is installed a test call must be made to check operation and start the digital heartbeat.

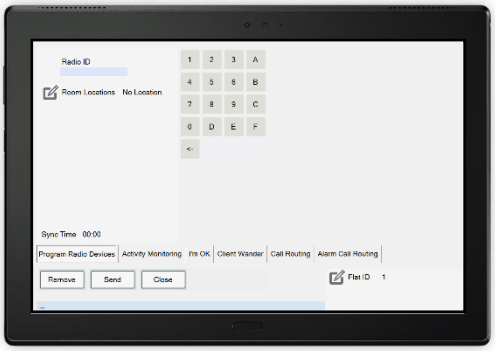
Alternatively, with the Reach IP in normal operating mode undo the fixing screw and remove the stand or connector cover to access the ● Power button.



Press the ● Power button to enter Control Mode, then press and hold the □ button until the unit announces "*add radio device*" then release.
Press the ● button to confirm then activate the PIR.
The Reach IP unit will sound a high beep if it's a new device and announce "*range test mode*".
Press ● to confirm, or press □ to step to the next function, or press ○ to exit the mode.
Activate the PIR to check operation.

Registering the PIR onto an Advent XT2

Press the **Settings** button on the Home page of the Manager's Panel. Press the Manager (or Engineer) button, enter the password and press the **Programming** button. Select the **Program Radio Devices** option from the tabs along the bottom of the screen.



Press **Flat ID** and enter the flat number the PIR is being installed in. Enter 4-digits e.g. 0014.
Press **Radio ID** and enter the 10-digit code taken from the label on the back of PIR detector.
Press **Room Locations** and select where the PIR is located from the on-screen options e.g. Bedroom.
Press the **Send** button to update the XT2 system.
Activate the PIR to check operation.

Registering the PIR onto a Carer Response

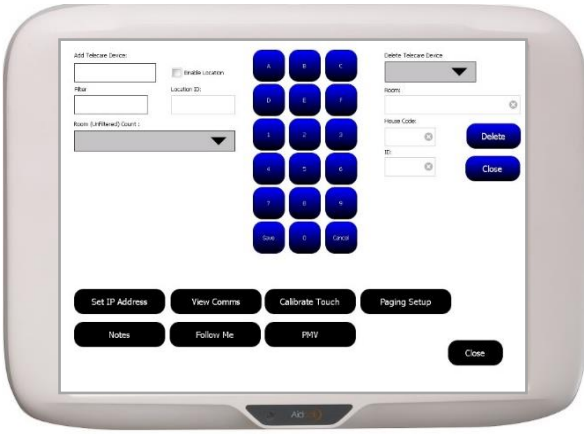


Refer to the Carer Response user manual for full details of the button functions and how to navigate the menus.

From the Main menu select **Programming**.
From the Programming menu select **Add transmitter**.
The display will prompt you to ***Activate the transmitter…***
Activate the PIR.
The Carer Response will beep and the display will change to the **Add transmitter** menu with a box showing **No ID**.
Press ↵ then ▼ to select **Room**, then press ↵
Press ▼ to select the room number box **0000**.
Press ↵ to select the first digit, press ↵ to move between the digits and press ▲ or ▼ to change each digit.
Press ↵ when the correct room number is displayed.
Press ▼ to select the alarm type box **None**.
Press ↵ then ▼ to select **Assistance** then press ↵
Press the ▼ button to select **Save** then press ↵
The display will show ***Radio ID saved to memory…***
Return to the **Main menu** and select **Quit**.
Activate the PIR to check operation.

Registering the PIR onto a Touchsafe Pro

Login to the Master Touchsafe Pro Nursecall Panel (must be V4.01 onward) using Engineer or Manager password.
From the Main Menu page select the **Telecare** option to open the screen shown below.



Touch the **Add Telecare Device** box and enter the Telecare device 10-digit Radio ID using the on-screen keypad.
Touch the **Filter** box and enter the zone you want to add the Telecare device to using the on-screen keypad.
Touch the **Room** box ▼ and select the Callpoint ID from the list that will be used to cancel the Telecare alarm.
Touch the **Save** button on the keypad.
Touch the **Close** button to exit.
Activate the PIR to check operation.

Declaration of Conformity

UK CA

We declare this product complies with the relevant UK legislation on condition that it is used in the manner intended, and in accordance with the current installation standards and/or the manufacturer's recommendations. A copy of the full UKCA Declaration of Conformity is available on request.

CE

We declare this product complies with the relevant European legislation on condition that it is used in the manner intended, and in accordance with the current installation standards and/or the manufacturer's recommendations. A copy of the full CE Declaration of Conformity is available on request.

Chris Dodd
CEO
Legrand Assisted Living & Healthcare