



- Compatible with Reach at-home alarms and Advent xt warden call systems
- Passive infrared detector
- Walk test LED (disabled during normal operation)
- Alarm interval: 1 or 3 minutes
- User replaceable AA Lithium batteries
- Low battery warning
- Dimensions: 121mm x 71mm x 55mm (HxWxD)
- Weight: 135 grams
- Product Code: ZXT475

What can the PIR Movement Detector be used for?

The PIR detector can be used for 2 different applications;

Intruder Monitoring – if movement is detected an alarm is reported

Inactivity Monitoring – if no movement is detected within a preset period an alarm is reported

Recommended Location

The PIR should be wall mounted at high level (2.1m) in the hallway to monitor movement between rooms. If there are pets in the home the PIR should be inverted and fitted at low level (1m) – see PET ALLEY mode.

Conditions to Avoid



Avoid placing 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 drop the PIR detector or expose to high vibration or shock

Typical Tools Required

Be careful when using step ladders – always face the direction you are working.

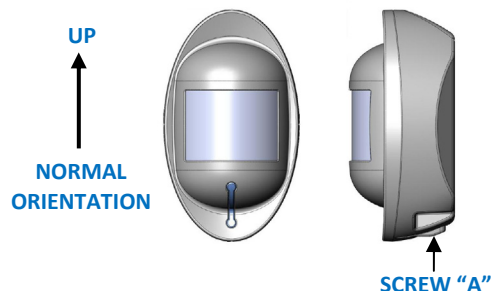
A drill is not required if the self adhesive fixing pad is used.

Always make sure the correct drill bits and screwdrivers are used.



Installation – Using Screw Fixings

1. Undo **SCREW "A"** from the bottom of the detector and remove the complete lid assembly.
2. Drill-out the 2 most suitable **FIXING HOLES "B"** inside the rear section. Use this as a template to mark the wall.
3. Before drilling the wall be sure there are no electrical cables or plumbing under the surface.
4. Use the screws & plugs provided to fix the rear section to the wall noting the correct orientation (see next page for PET ALLEY).
5. Remove the insulating tab to connect the batteries, refit the lid and tighten the screw.



Installation – Using Self Adhesive Pads

Undo **SCREW "A"** and remove the lid assembly.

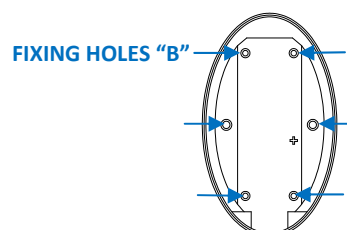
Remove the insulating tab to connect the batteries.

Refit the lid and tighten the screw.

Select the best location where the wall surface is clean, dry and even.

Stick the adhesive pad to the rear of the detector.

Press the detector firmly against the wall ensuring it is stuck securely.



Pet Alley Mode

To prevent pets causing false activations the PIR detector must be inverted and fitted at low level (1m).

When fitted in this mode any movement below the 1m level will go un-detected⁽¹⁾.

⁽¹⁾ Results based on tests in a 4m x 4m room.



Walk Test Mode

To enter the walk test mode;

1. Undo the screw and remove the PIR lid
2. Wait for about 5 seconds
3. Refit the lid
4. The front red LED will flash rapidly 8 times

You now have 3 minutes to perform a walk test.

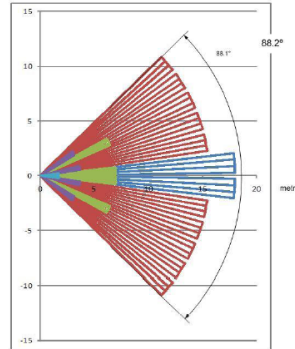
The red LED will flash once when movement is detected.

NOTE: there are no radio transmissions during a walk test.

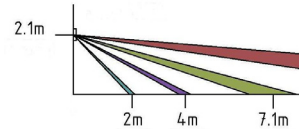
At the end of the walk test period the red LED will flash rapidly 8 times.

The PIR is now in normal operating mode and the LED will NOT flash when movement is detected.

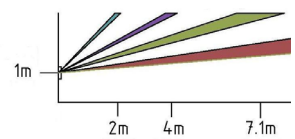
DETECTION PATTERN TOP VIEW



NORMAL DETECTION PATTERN - SIDE VIEW



PET ALLEY DETECTION PATTERN - SIDE VIEW



Testing & Registering the PIR Detector

When the PIR lid is removed the tamper switch will operate and transmit an alarm signal. This will also check the battery condition (and report an alarm if low) to assist Service Engineers.

The tamper switch should be activated when learning the PIR onto the Reach at-home alarm or Advent xt warden call system. See pages 3 & 4 for how to put each of these products into "Learn Mode".



The range of all radio devices can be affected by the working environment - always take care during installation and perform several test calls.

DIL Switch Settings

The 2 way DIL switch inside the PIR detector is used to set the sensitivity and alarm interval;

DIL Switch No. & Function	OFF (Default)	ON
SW1 = Pulse Count (Sensitivity)	2 pulses to trigger	3 pulses to trigger
SW2 = Alarm Interval Time	3 minutes	1 minute

If false alarms are a problem try setting DIL switch 1 ON to reduce the sensitivity.

After an activation the PIR turns itself off for the alarm interval time to conserve battery power.

During the alarm interval period movement is not detected.

Maintenance

No routine maintenance is required; however a walk test should be performed once a year 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 damp cloth, never use detergents or polish.

Decorating



Never paint the PIR detector itself.

Unlike some detectors, PIR's are not susceptible to contamination from paint fumes therefore no special precautions need to be taken.

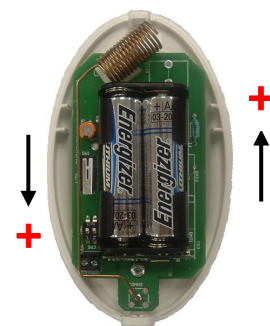
Battery Life

The PIR contains 2 long life Lithium batteries. Under normal operating conditions (40 activations/day) the batteries should last for up to 2 years.

The battery condition is checked once a day, if the voltage falls and stays below a preset level for 7 consecutive days a low battery alert is automatically transmitted.

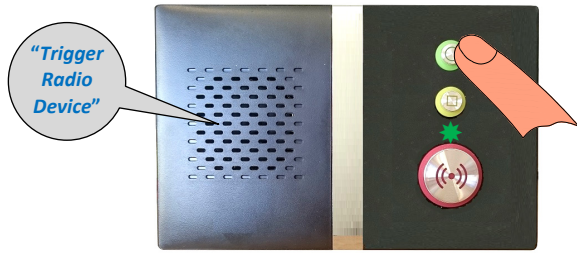
Another low battery call will not be transmitted for 7 days, the batteries should be replaced within 2 weeks of the first low battery warning.

Replacement batteries: 2 x AA size Energizer Lithium – always replace in pairs. Take care to refit the batteries in the correct polarity.



Registering a PIR Detector onto a Reach at-home alarm unit

1. Put the Reach unit into radio device learn mode...

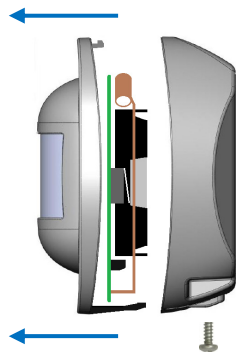


Press and **HOLD** the **GREEN** button on the Reach unit.

When the front light **FLASHES FAST GREEN** release the button and the Reach will announce **"Trigger Radio Device"**.

You now have 1 minute to activate the PIR detector.

2. Activate the PIR detector tamper...

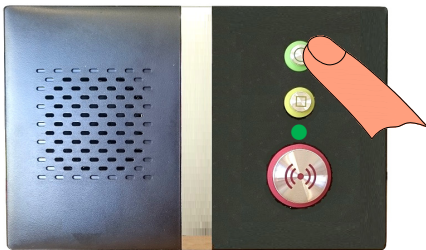


Undo the screw and remove the PIR lid from its base to activate the tamper switch.

The Reach will announce **"Movement Sensor"**.

Refit the PIR lid.

3. Exit radio device learn mode...



Press the **GREEN** button on the Reach unit.

The front light will return to **STEADY GREEN** and the Reach is back in normal operating mode.

4. Check with the Control Centre that it is convenient to perform a test call. Press the **GREEN** button on the Reach unit and it will announce **"Intruder Mode... Ready"**. Press the pendant within 20 seconds and the Reach will announce **"Enabled"** followed by **"Beep-Beep"** for the duration of the exit time. Let the exit time expire then open the door, do not disable intruder mode on the Reach unit, when the entry time expires an intruder alarm call will be reported to the Control Centre.

Deleting a PIR Detector from a Reach at-home alarm unit

Enter *** 1 6 7 0** using the keypad on the rear of the Reach unit – the front light will **FLASH FAST GREEN** and the unit will announce **"Program Mode - Ready"**.

Enter **# 0 4 1** and the Reach will announce **"Delete Radio Device"** followed by a **"Beep"**.

Enter the 8 digit PIR ID[‡] to be deleted; after the **"Beep"** press **#** to exit.

Press the ***** key to exit Program Mode; the unit will sound a **"Double-Beep"** and the front light will return to **STEADY GREEN**.

[‡]The 8 digit ID can be found on a label inside the back of the PIR detector – it will always start with 50xxxxxx



The instructions given above for the standard Reach product also applies to the Reach Plus, Reach Plus GSM and Reach Ultra models. Refer to the instruction booklets provided with these products for more information on programming/testing radio devices and setup/operating intruder mode.

Registering a PIR Detector onto an Advent xt warden call system

1. Put the Advent xt system into radio device learn mode...



Using the Manager's DECT telephone;

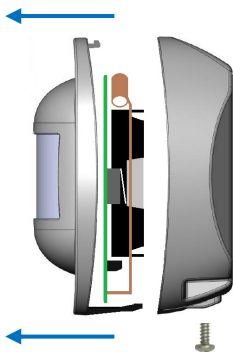
Press the **LINE** key and wait for the "Ready" prompt.

Enter **5 0 0 0** followed by the ***** key.

Enter the flat number the PIR is being installed in followed by the ***** key.

You now have 1 minute to activate the PIR detector.

2. Activate the PIR detector tamper...



Undo the screw and remove the PIR lid from its base to activate the tamper switch.

Wait for the "Enter Location Code" prompt then press **0** (no location) followed by the ***** key.

Wait for the "Pendant Enabled – Enter Flat" prompt.

Refit the PIR lid.

3. Exit the Advent xt system radio device learn mode...



Using the Manager's DECT telephone;

Press the **#** key and wait for the "Ready" prompt.

Press the **LINE** key to clear the connection and the warden call system is now back in normal operating mode.

4. Using the Manager's DECT telephone set the flat into intruder mode; press the **LINE** key and wait for the "Ready" prompt, enter **3007*** then enter the flat number to have intruder mode enabled followed by the ***** key, then press the **LINE** key to clear the connection. Open the door and check an intruder alarm call is reported on the warden call system. To reset intruder mode; enter **3008*** then enter the flat number to be disabled followed by the ***** key, then press the **LINE** key to clear the connection.

Deleting a PIR Detector from an Advent xt warden call system

Press the **LINE** key and wait for the "Ready" prompt.

Enter **5 0 0 1** followed by the ***** key.

Enter the flat number the PIR is being deleted from followed by the ***** key.

Activate the tamper switch on the PIR to be deleted.

Wait for the "Pendant Disabled – Enter Flat" prompt.

Press the **#** key and wait for the "Ready" prompt, then press the **LINE** key to clear the connection.



Refer to the Advent xt operators manual (Doc No. FM0420) provided with the warden call system for more information on programming/testing radio devices and operation of the intruder mode.

Tynetec and Aidcall operate a policy of continuous improvement and reserve the right to change product specifications without notice. If any variation to the details contained in this document are suspected please contact Tynetec's customer support dept on 01670 352371.