



- Compatible with Reach at-home alarms, Advent XT warden call systems, Altec Response local carer alarms & Touchsafe Pro Nursecall systems
- Floor mounted passive infrared motion detector
- Operation and detection LED indicators
- 2 No. user replaceable 1.5V AA Alkaline batteries
- Low battery warning
- Dimensions: 128mm x 57mm x 35mm (HxWxD)
- Weight: 128 grams inc. batteries
- Product Code: ZXT494

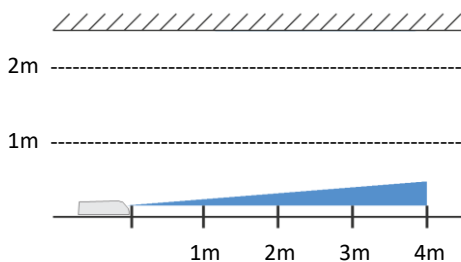
What can the PIR be used for?

The Floor PIR motion detector monitors the presence of people and registers their movements. Movement will normally result in an alarm call being sent to the Care personnel.

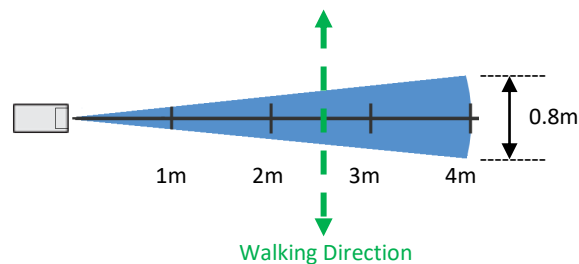
Where can the PIR be located

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

Floor Mounted Vertical Detection Area



Horizontal Detection Area



IMPORTANT: Care should be taken when placing the PIR to ensure the required area of detection is properly covered. It is best practice to place the PIR so the detection beam will be crossed by the walking direction you want to monitor. If setup for no entry/exit delay then the PIR should be placed so Carers can switch the PIR on/off when leaving and entering the room without passing the detection area. Always perform a walk test during installation.

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.



This product should be disposed of and recycled in accordance with the WEEE regulations.

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.

Product Overview

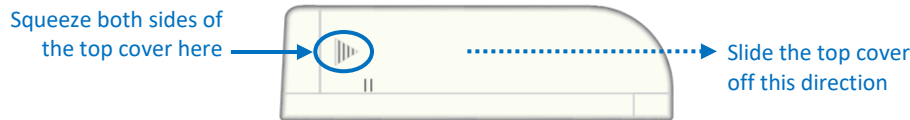


Operation LED; this will indicate when the PIR is switched on/off, when it is in walk test mode, if the batteries are running low and when an alarm is transmitted. *Note: indication of when an alarm is transmitted can be switched off using DIP switch 6.*

Detection LED; this will indicate when movement is detected. *Note: indication of movement can be switched off using DIP switch 7.*

Fitting the Batteries

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



Fit the two AA batteries provided – polarity is indicated on the PCB. Slide the top cover back into place and click closed.

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. There is no movement detection or alarm transmissions during this period.

If the batteries are low, then the Operation LED will **flash red** during the 45 second Start-up period. Replace both batteries.

Note: the batteries should be removed if the PIR is being stored or if it is not going to be used for a prolonged period of time.

ON/OFF Buttons

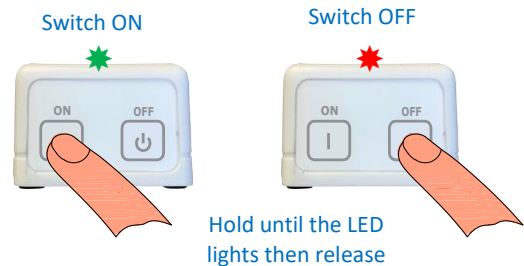
To switch the PIR ON; press and hold the ON button until the Operation LED lights **green** then release.

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*.

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

**Note: the entry/exit delay can be overridden for instant arm/alarm by selecting the Factory Config setting – DIP switch 1 ON.*



Walk Test Mode

Walk test mode 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. If the battery level is below a threshold value a low battery alarm is sent. 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.

PIR Configuration DIP Switches

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

DIP No.	Function	Switch OFF	Switch ON	Default
1	Configuration Settings	Config via DIP switches 2-8	Config set via factory pre-sets	ON
2	Power Saving Mode	Power saving off	Power saving on	OFF
3	IDA Mode (Intelligent Door Alarm)	IDA off – NOT USED	IDA on – NOT USED	OFF
4	IDA Exit Delay	5 Sec Delay – NOT USED	180 Sec Delay – NOT USED	OFF
5	IR Detection Sensitivity	High Sensitivity	Low Sensitivity	OFF
6	Operation LED after Alarm	LED indication off	LED indication on	ON
7	Detection LED after Movement	LED indication off	LED indication on	ON
8	Disable OFF button & Alarm Delay	Button enabled/15 Sec Delay	Button disabled/No Delay	OFF

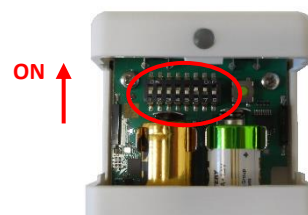
DIP Switch 1 – Configuration Settings

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 with DIP 1 ON
Power Saving Mode	ON
Period of no movement before new alarm	20 Secs
IDA Mode (Intelligent Door Alarm)	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

Use a terminal screwdriver to set the DIP switches



IMPORTANT: with DIP 1 ON there is no entry or exit delay before alarm. 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 is likely to result in false activations when Carers leave or enter the room.

DIP Switch 2 – Power Saving Mode

Transmitting alarms consumes battery power.

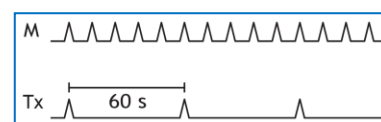
The PIR can be set to Power Saving Mode to extend battery life.

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.

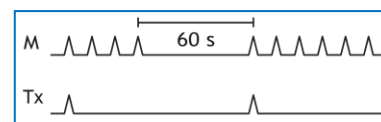
ON: power saving mode, the PIR sends an alarm (Tx) after the first movement detection (M) and there must be a period of 60 seconds with no movement detection (M) before a new alarm is sent*.

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

Normal



Power Saving



DIP Switch 3 – Intelligent Door Alarm (IDA) Mode – NOT USED

OFF: normal PIR movement detection mode and DIP switch 4 is ignored.

ON: enable IDA mode – feature not available with the floor PIR.

Note: DIP switches 2 and 5 are ignored if DIP switch 3 is ON.

DIP Switch 4 – Intelligent Door Alarm (IDA) Exit Delay – NOT USED

In IDA mode this setting determines the delay before an exit alarm is transmitted – feature not available with the floor PIR.

Note: DIP switch 4 is ignored if DIP switch 3 is OFF.

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.

DIP Switch 6 – Operation LED indication after Alarm

OFF: no indication when an alarm is sent.

ON: the 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: the 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 (IDA mode on or off)

With DIP 3 OFF (IDA mode 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.

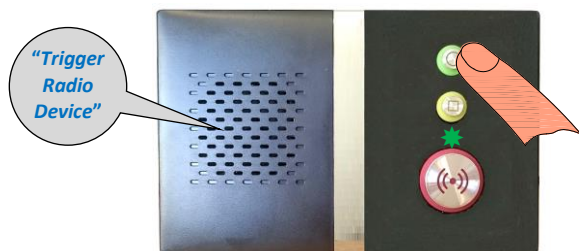
With DIP 3 ON (IDA mode activated) – the OFF button can be configured and alarm delays depend on DIP 4

DIP 8 OFF: the door alarm can be turned off with the OFF button.

DIP 8 ON: the door alarm cannot be turned off with the OFF button, this will prevent users from unintentionally turning the door alarm off. There is no alarm delay.

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. Switch the PIR ON and wait 15 seconds for the exit time to expire, then move in front of the PIR...

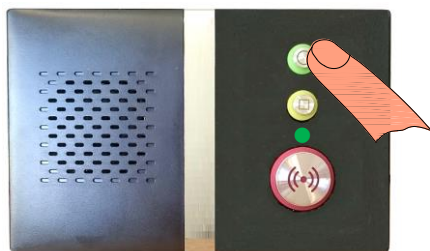


Note: it is assumed the PIR detection and operation LED's are both enabled...

The PIR detection LED will **FLASH RED** then after the 15 second entry delay the operation LED will **FLASH RED**.

The Reach will announce "**Bed Occupancy**".

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. Switch the PIR ON and allow 15 seconds for the exit time to expire, activate the PIR, allow the 15 second entry time to expire and check a "Bed Occupancy" alarm is 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 the label on the bottom of the PIR detector – it will always start with 33xxxxxx



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. Switch the PIR ON and wait 15 seconds for the exit time to expire, then move in front of the PIR...



Note: it is assumed the PIR detection and operation LED's are both enabled...

The PIR detection LED will **FLASH RED** then after the 15 second entry delay the operation LED will **FLASH RED**.

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

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

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. Switch the PIR ON and allow 15 seconds for the exit time to expire, activate the PIR, allow the 15 second entry time to expire and check a "Bed Occupancy" alarm is reported on the warden call system.

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 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 operator's manual (Doc No. FM0420) provided with the warden call system for more information on programming/testing radio devices and operation of the intruder mode.

Registering a PIR Detector onto an Altec Response local carer alarm unit

1. Put the Altec Response unit into radio device learn mode...



Press **ENTER** to activate the wake-up display then **ENTER** again to display the main menu.

Press **ENTER** to select → **Radio Devices** ←

Press **ENTER** to select → **Learn Device** ←

The display will prompt you to “Trigger the Sensor”.

You now have 20 seconds to activate the PIR detector.

2. Switch the PIR ON and wait 15 seconds for the exit time to expire, then move in front of the PIR...



Note: it is assumed the PIR detection and operation LED's are both enabled...

The PIR detection LED will **FLASH RED** then after the 15 second entry delay the operation LED will **FLASH RED**.

The display will show the **Sensor Type** and the PIR's 8 digit ID number.

Check the ID is correct, press the ▼ key to select → **Accept** ← then press **ENTER**.

Note: if another device has been picked-up press ENTER to → Reject ← and try again.

The display will show ← **Flat** →, use the ◀ & ▶ keys to choose the dwelling type.

Press the ▼ key to select → **No: 000000** ← then press the **ENTER** key.

Use the ▲ & ▼ keys to select each digit of the flat number and the ◀ & ▶ keys to move between digits then press the **ENTER** key.

Press ▼ key several times to select → **Exit** ← then press the **ENTER** key.

The display will prompt you to “Trigger the Sensor” again.

3. Exit the Altec Response radio device learn mode...



From the **Learn Device** menu select → **Exit** ← then press **ENTER**.

From the **Radio Devices** menu select → **Exit** ← then press **ENTER**.

The display will return to the wake-up screen and go blank after 10 seconds.

The Altec Response is now back in normal operating mode.

4. Switch the PIR ON and allow 15 seconds for the exit time to expire, activate the PIR, allow the 15 second entry time to expire and check a “Bed Occupancy” alarm is reported on the Altec Response unit.

Deleting a PIR Detector from an Altec Response local carer alarm unit

Press **ENTER** to activate the wake-up display then **ENTER** again to display the main menu

Press **ENTER** to select → **Radio Devices** ←

Press the ▼ key to select → **Delete Device** ← then press **ENTER**

The display will prompt you to “Trigger the Sensor”

Activate the PIR detector - the display will show the device type and its 8 digit ID

If this is the device you activated press the ▼ key to select → **Delete** ← then press **ENTER**

If it's NOT the device you activated press the **ENTER** key to select → **Reject** ← then try again

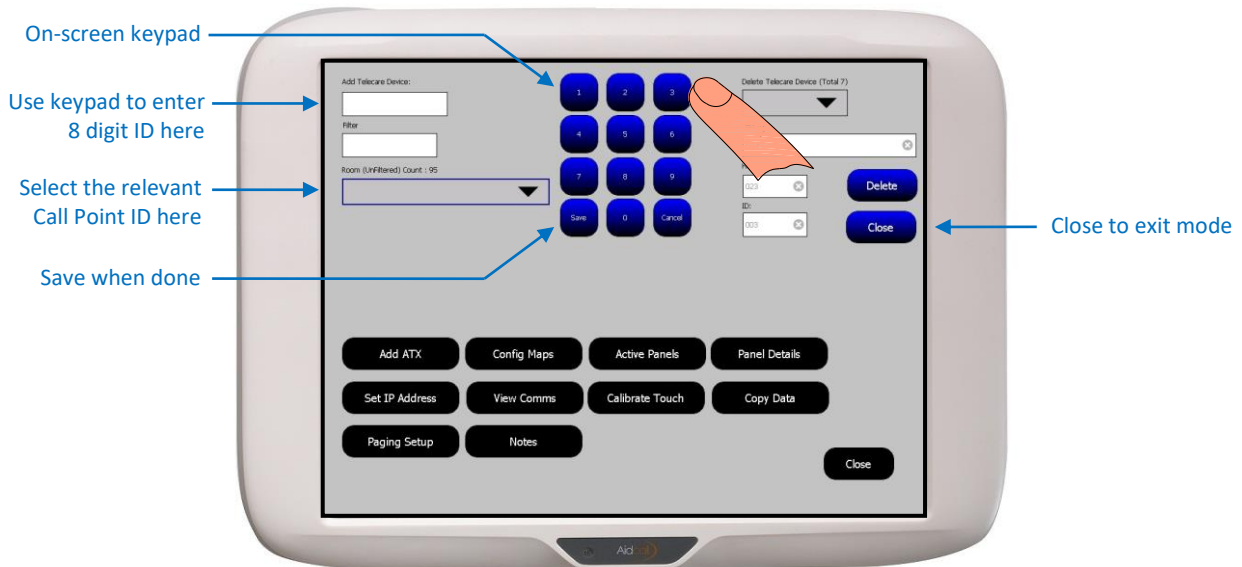
To exit the mode, select → **Exit** ← then press the **ENTER** key.



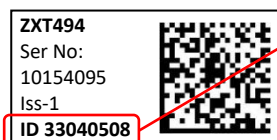
Refer to the Altec Response installation guide (Doc No. FM0548) provided with the portable alarm unit for more information on programming and testing radio devices.

Registering a PIR Detector onto a Touchsafe Pro Nursecall system

1. Put the Touchsafe Pro Master Panel into Telecare registration mode; touch the screen and Logon as an Engineer or a Manager (password required), then from the main menu page touch the **Telecare** button to open the screen shown below...



2. Enter the PIR Detector ID



The 8 digit ID is printed on a label on the rear of the PIR detector.

Note: this ID will always start with 33xxxxxx.

Touch the **Add Telecare Device** box then use the on-screen keypad to enter the ID.

*Hint: enter a zone in the **Filter** box to narrow the search for the room (see below).*

Select the users Call Point ID from the **Room** pull-down list box then press **Save**.

Note: this is the room unit that will be used to cancel the call.

3. Press the **Close** button to exit Telecare mode and the Nursecall panel is now back in normal operating mode.

4. Activate the PIR and check the call is displayed on the Nursecall panel like this...



The screen banner is **yellow** for a bed occupancy call (*Touch the banner to display notes*).

Press the **Accept** button on the banner to silence the alarm - this will also notify all other panels the call is being dealt with.

The screen banner changes to **purple** when a call is accepted.

You must visit the appropriate Nursecall Call Point to cancel the call.



Press the LIGHT GREY button to cancel the call

Deleting a PIR Detector from a Touchsafe Pro Nursecall system

Select the PIR ID to be deleted from the **Delete Telecare Device** pull-down list box (prefixed with a "T33").

Details of the PIR selected will be displayed in the **Room**, **House Code** and **ID** boxes below.

If the details shown are correct press the **Delete** button.

Press the **Close** button to exit.



Refer to the Touchsafe Pro Display Panel user guide (Doc No. FM5505) provided with the Nursecall system for more information.

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.