

## Keypad Alarm Kits



**Installation & Operating Manual**

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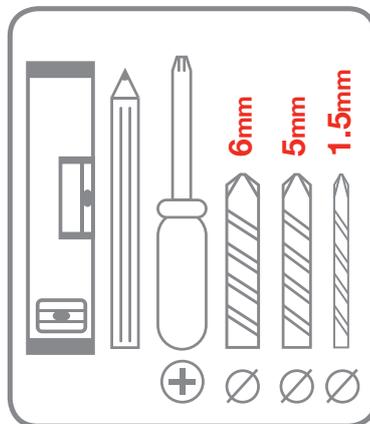
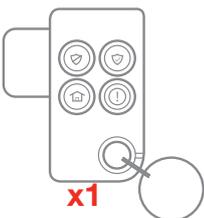
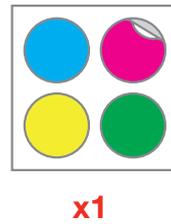
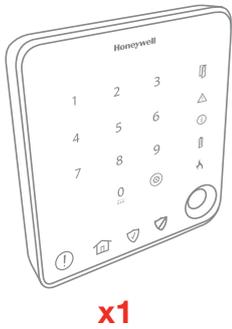
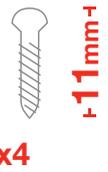
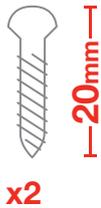
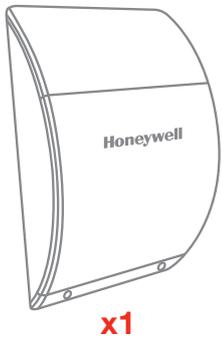
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# KIT CONTENTS

Contents and fixings below for Motion and Door Window Sensors are based on per unit.

All devices supplied in this kit are prelinked ready to install and operate.  
Batteries are supplied fitted in all battery powered devices



**Optional devices**  
Remote Control  
External Battery Siren  
External Dummy Siren

**IMPORTANT: LOCAL AUTHORITY REGULATIONS AND LEGISLATION**  
This alarm system should be installed and operated in accordance with the requirements of any current local and/or national regulations and legislation. We recommend that you contact your authority to obtain details of your area's requirements regarding intruder alarm installations.

# INTRODUCTION AND OVERVIEW

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## ZONES

A Zone is a group of sensors installed in areas of the home.

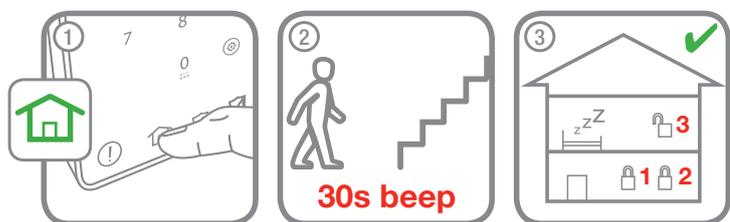
The system incorporates 3 wireless intruder Zones for the connection of Internal Motion Sensors or Door Window Sensors used to independently monitor different areas of the property.

The system also incorporates a dedicated Smoke/CO sensor Zone which provides 24 hour monitoring of any such type of sensors.

## SYSTEM ARMING

The system has a 'Full Arm' and a 'Home Arm' facility. Full Arm will arm all Zones while the Home Arm mode will only arm particular Zones that allow the premises to be partially armed.

**By default Home Arm mode will activate Zone1 and Zone2 devices. Zone1 has a 30 second entry/exit delay where as Zone2 offers instant protection. Home mode is explained by the below diagrams.**



**All supplied Door Window Sensors are prelinked to Zone1 in the Keypad and are typically installed near entry/exit points.**

**All supplied Motion Sensors are prelinked to Zone2 in the Keypad and are typically installed on the ground floor in rooms/areas requiring instant protection.**

The system is currently default configured so that during night time, Home Arm mode would arm only Zones1&2 protecting the lower floor and outbuildings, leaving the upper floor free for movement without triggering the alarm.

However, when the property is left unoccupied, the Full Arm mode will arm all Zones to protect the entire property (i.e. upper and lower floors and outbuildings).

## ENTRY/EXIT DELAY

Zone1 offers a fixed 30 seconds entry/exit delay. Zones2&3 offer instant protection.

Typically, Zone1 covers the main entrance door and the route to and from the Keypad where a delay is required. This allows time for the user to exit the property after setting the system at the Keypad or to Disarm the system before the alarm triggers when re-entering the property.

The remaining Zones2&3 are configured as Instant, allowing them to sound the alarm immediately a sensor on any of these Zones is triggered.

All Zones will not become fully armed until after the Entry/Exit delay period has ended.

When a sensor on a Delay Armed Zone is triggered, an alarm condition will not be triggered until after the Entry/Exit period has ended. If the system is not disarmed during the delay period, the alarm will sound when the delay period expires. Instant Armed Zones are immediately able to initiate an alarm as soon as the system begins to arm.

**Note:** To conserve power and maximise battery life the Internal Motion Sensor will only detect movement if there has been no movement detected within the previous 2 minutes. Consequently the Motion Sensor will not become active until the protected area has been free from movement for at least 2 minutes.

## BATTERY MONITORING

All devices powered by non-rechargeable batteries incorporate a battery level monitoring feature which will warn of a low battery status.

In addition the Keypad will indicate a low battery status on any Motion Sensor or Door Window Sensor on the system as well as the Keypad unit itself and any Smoke/CO sensors.

The batteries on any device indicating a low battery status should be replaced immediately.

## USER ACCESS CODE

The Keypad is the heart of the system and is where the system is programmed and operated from. A 4 digit code is used to ensure that only authorised people have access to the system. This is the User Access Code and can be set to a code of your choice that only you and other authorized system users know.

## CONTACTLESS TAGS

For convenience, the system offers Contactless Tags for quicker access into the system where a user access code would normally be required. The Tag is simply moved in proximity of the reader on the Keypad. It would typically be used when disarming the Keypad.

# PLANNING AND EXTENDING YOUR ALARM SYSTEM

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Before attempting to install your Alarm System it is important to study your security requirements and plan your installation accordingly.

Motion Sensors (PIR) are used to protect the main areas of the property (e.g. lounge, study and landing). Door Window Sensors are typically used to protect the main access points to the property (e.g. front door, back door, patio doors etc). However, they can also be used to protect other vulnerable doors/windows or access doors to important rooms.

## TYPICAL INSTALLATION

The following example describes a typical property incorporating the suggested positions for the External Siren, Motion Sensors and Door Window Sensors. Use this as a guide for your installation in conjunction with the detailed positioning requirements for each device provided in the appropriate installation sections in this manual for planning your intruder alarm system. **Refer to the quick guide in your alarm kit for planning layout.**

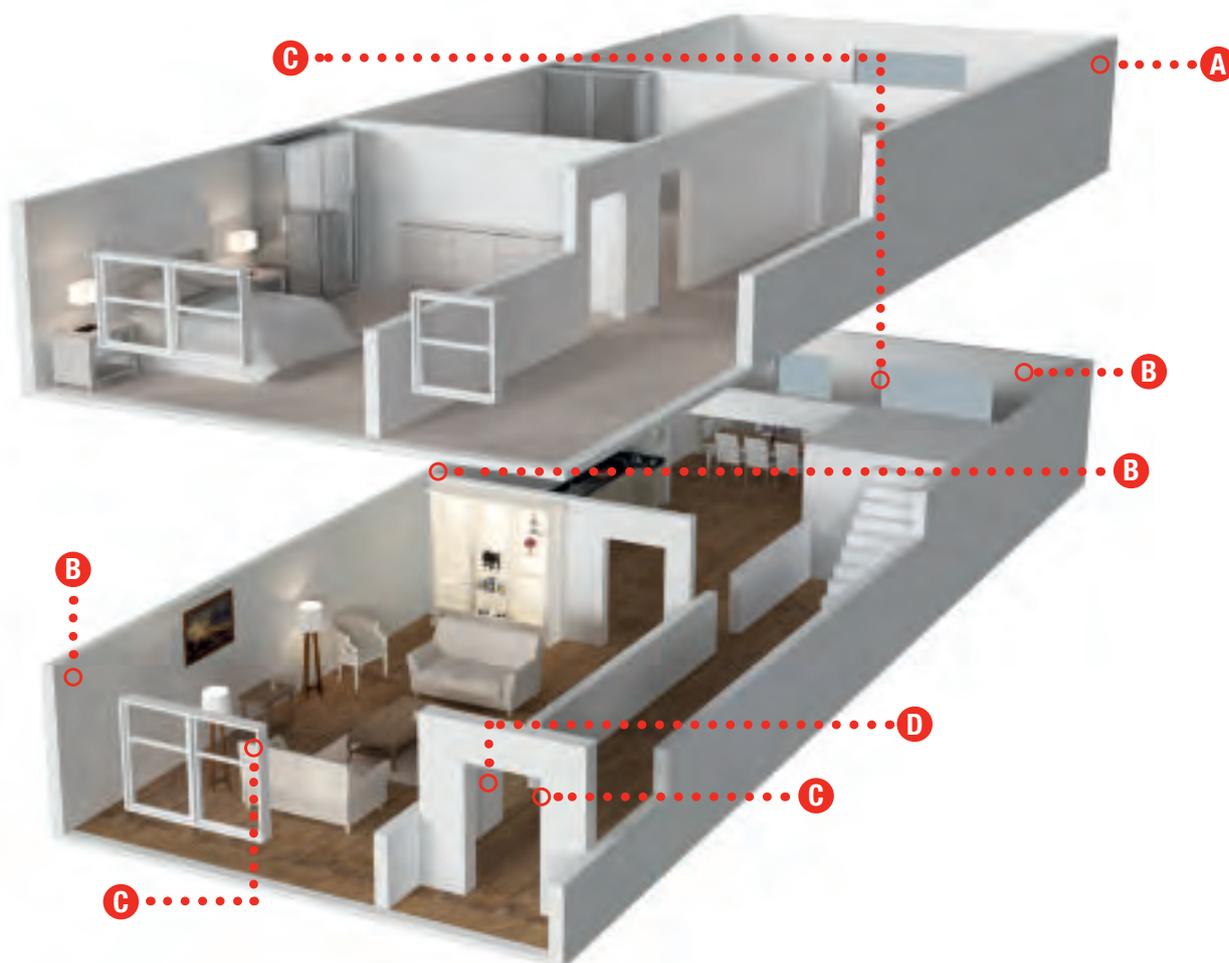
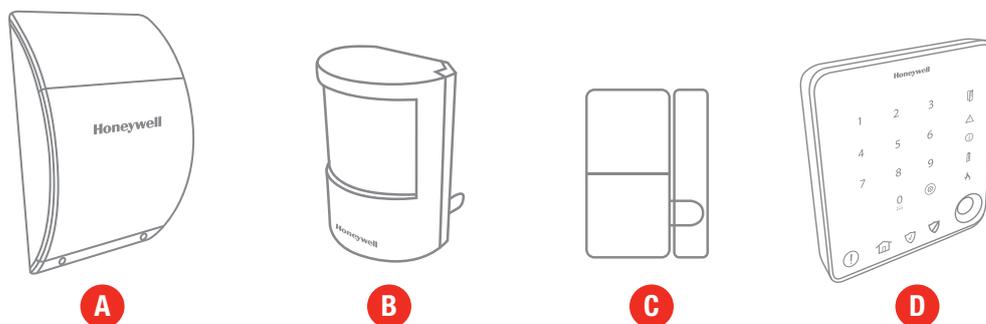
### Typical Installation using only the sensors supplied:

1. Place the 1st Door Window Sensors (supplied prelinked to Zone1) on the front door
2. Place the 2nd Door Window Sensor (supplied prelinked to Zone1) on the back or patio doors where rear access is required
3. Place the 3rd Door Window Sensor (supplied prelinked to Zone1) on any ground floor door/window
4. Place the 1st Motion Sensor (supplied prelinked to Zone2) in the living room/lounge
5. Place the 2nd Motion Sensor (supplied prelinked to Zone2) in a dining/kitchen area
6. Place the 3rd Motion Sensor (supplied prelinked to Zone2) downstairs in any extended area of the home
7. An additional Motion Sensor should be located in Zone3, on the 2nd floor on the landing covering the access routes between bedrooms and the stairs

If this kit contains more than 1 x Door Window Sensors, then any additional devices will also be supplied linked to Zone1. Subsequently any additional Motion Sensors supplied will also be linked to Zone2.

Zones3 will be inactive if Home Arm is used based on the default setup. The system may be expanded with additional sensors.

Remote Controls provide even greater protection. For example with Home Arm, any Motion Sensor located on Zone2 but covering the landing/hallway will provide instant protection outside of the bedrooms when sleeping at night. The Remote Control must be used to disarm the system before re-entering the hallway from any bedroom to prevent an alarm.



## REMOTE CONTROL FOB (OPTIONAL ACCESSORY)

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The Remote Control Fob(s) is used to Arm in either Arm or Part-Arm and to Disarm the system.

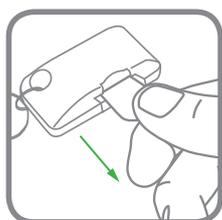


The Remote Control Fob also incorporates a Personal Attack (PA) button. Pressing and holding the Panic button for 3 seconds will immediately trigger an Alarm (unless the Keypad is in Test or Program Modes) even if the system is disarmed. The alarm can be cancelled using the Remote Control by pressing the 'DISARM' button.

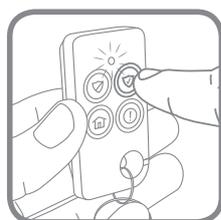
Up to a total of 5 Remote Controls can be used with your system, providing they are all operated within effective radio range of the Keypad unit. The Remote Control is powered by a CR2032 type Lithium cell which under normal conditions will have an expected life of approximately 2 years. Under normal battery conditions the Transmit LED on the Remote Control will only illuminate when a button is pressed. However, under low-battery conditions this LED will flash 3 times after the button has been released. When this occurs the battery should be replaced as soon as possible.

### POWERING THE REMOTE CONTROL FOB

Initial power up:



### TESTING THE REMOTE CONTROL FOB



**Any Remote(s) supplied in this kit will already be linked to the Keypad.**

## DOOR WINDOW SENSORS

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The Door Window Sensor comprises two parts; a sensor and a magnet. They are designed to be fitted to doors or windows with the magnet mounted on the opening part of the door/window and the sensor mounted to the frame.

When the protected door or window is opened and the magnet is moved away from the sensor an alarm will be triggered if the system is armed.

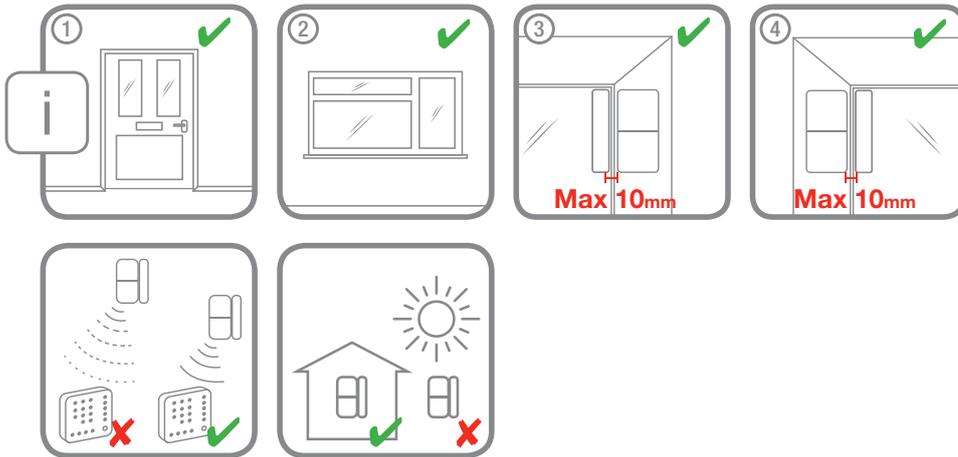
It is powered by a CR2032 type Lithium coin cell which under normal conditions will have an expected life of approximately 2 years. Under normal battery conditions the LED on the sensor will not illuminate when the sensor is triggered (unless the sensor is in test mode with the battery cover removed). However, under low battery conditions this LED will flash 3 times when the sensor is triggered. When this occurs the batteries should be replaced as soon as possible.

Up to a maximum of 6 Door Window Sensors and/or Motion Sensors per Zone can be used with the system, providing they are all mounted within effective radio range of the Keypad.

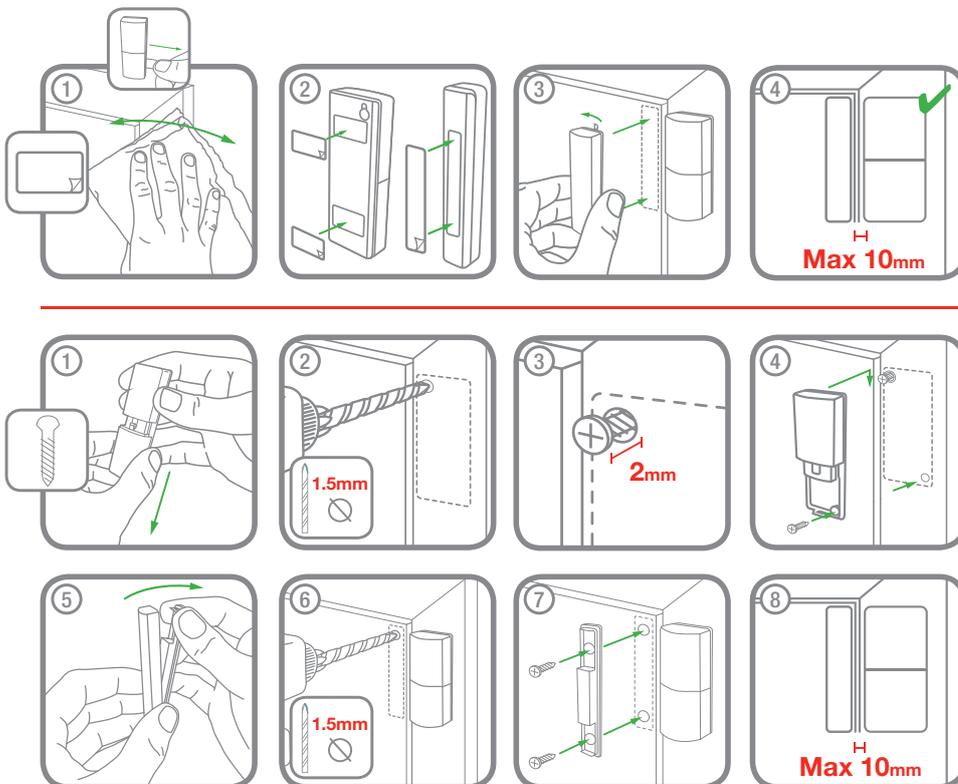
All Door Window Sensors supplied with this kit will already be linked to Zone1 in the Keypad.

**IMPORTANT:** Before powering ON the Keypad, ensure all supplied Door Window Sensors installed on any doors/windows are initially in the closed position to allow the Keypad to initialise with all sensors in this position before being powered up.

## POSITIONING THE DOOR WINDOW SENSOR(S)

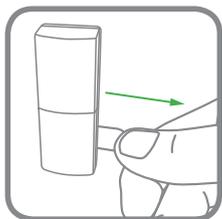


## INSTALLING AND CONFIGURING THE DOOR WINDOW SENSOR



**Note:** The magnet can be installed on either side of the sensor.

## POWERING THE SUPPLIED DOOR WINDOW SENSOR(S)



## TESTING THE DOOR WINDOW SENSOR(S)

If the Keypad has already been installed, ensure it is placed into Test or Programming Mode before testing any linked Door Window Sensors to prevent a tamper alarm.

1. Remove battery cover to activate the tamper switch.
2. As the button is released the LED indicator will illuminate for approximately 1 second to show that the tamper switch inside has been triggered and a signal is being transmitted.
3. Open the door/window to move the magnet away from the sensor.

As the magnet is moved away from the sensor the LED indicator will illuminate for approximately 1 second to show that the sensor has been triggered and a signal is being transmitted.

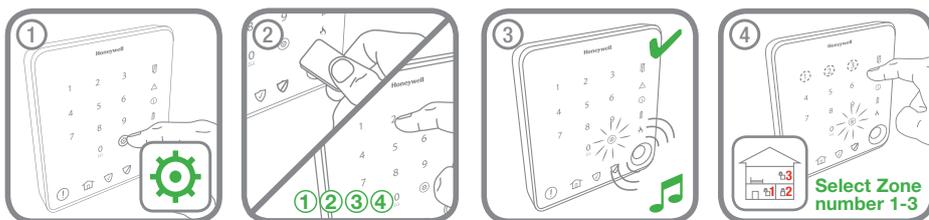
**Note:** It does not matter if the LED indicator illuminates as the magnet is brought towards the sensor.

With the battery cover fitted the LED indicator will not flash when the door/window is opened (unless the battery is low).

4. Refit the battery cover after testing complete
5. Press  or  to exit Programming/Test Mode

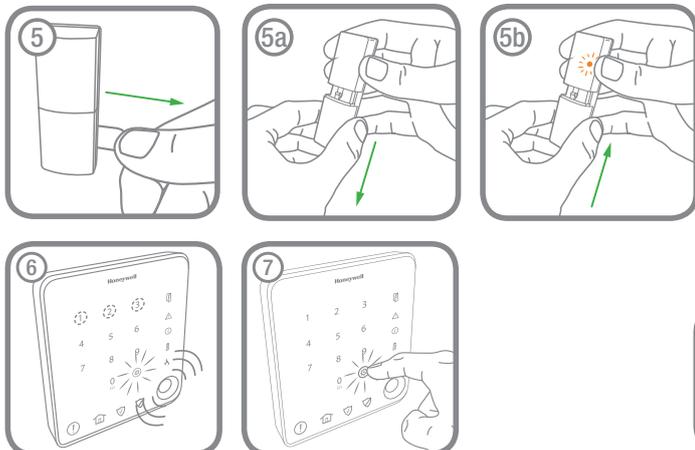
## LINKING A NEW MAGNETIC DOOR WINDOW SENSOR

If you have purchased additional sensors, then they will require pairing with the keypad.



**Auto linking:**

**Manual linking:**



**IMPORTANT:** After any new sensors are linked to the Keypad, open and close the door/window to ensure the Keypad stores the correct open/close status of the sensor.

# MOTION SENSORS (PIR)

Motion Sensors detect movement in a protected area by detecting changes in infra-red radiation levels caused for example when a person moves within or across the Motion Sensor's detection pattern. If movement is detected an alarm will be triggered (if the system is armed). Motion Sensors will also detect animals, so ensure that pets are not permitted access to areas fitted with Motion Sensors when the system is armed.

The sensor incorporates an anti-tamper protection feature to protect against attempts to interfere with the device. If the battery cover is removed, an alarm will immediately occur at any time (unless the system is in Program or Test Modes).

To conserve power and maximise battery life the Motion Sensor will only detect movement if there has been no movement detected within the previous 2 minutes (this is known as the sensor's sleep period).

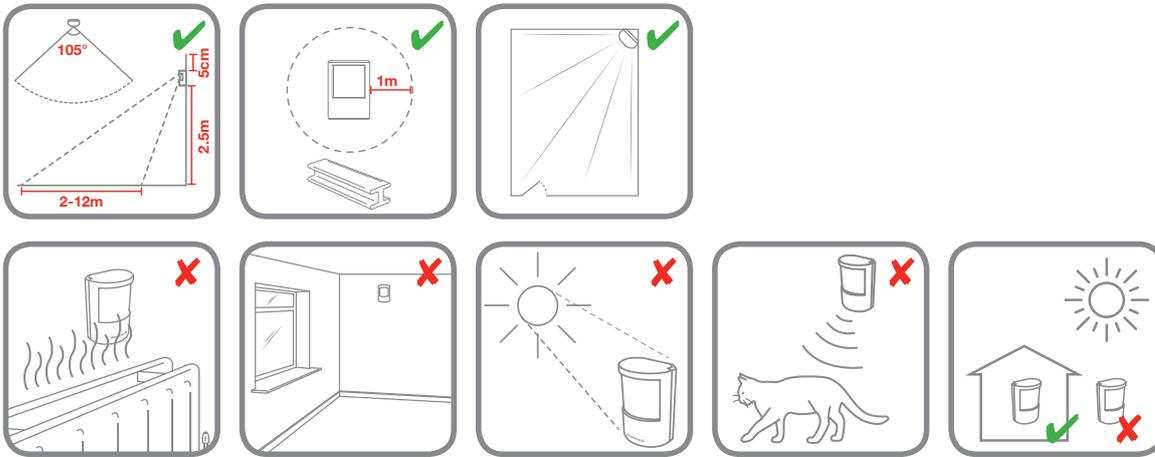
The Motion Sensor (PIR) is powered by 3 x 1.5V AAA LR03 Alkaline batteries that under normal conditions will have an expected life of approximately 2 years. When the battery level drops, with the Motion Sensor in normal operation mode and the battery cover fitted, the LED behind the detection window will flash 3 times. When this occurs the batteries should be replaced as soon as possible.

**Note:** In normal operation, the LED behind the lens will not flash on detection of movement.

Up to a maximum of 6 Motion Sensors (PIR) and/or Door Window Sensors per Zone can be used with your system, providing they are all mounted within effective radio range of the Keypad.

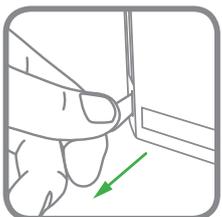
All Motion Sensors supplied with this kit will already be linked to Zone2 in the keypad.

## POSITIONING THE MOTION SENSORS

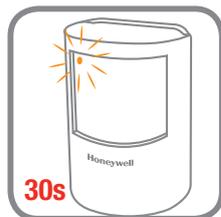


## POWERING THE MOTION SENSOR(S)

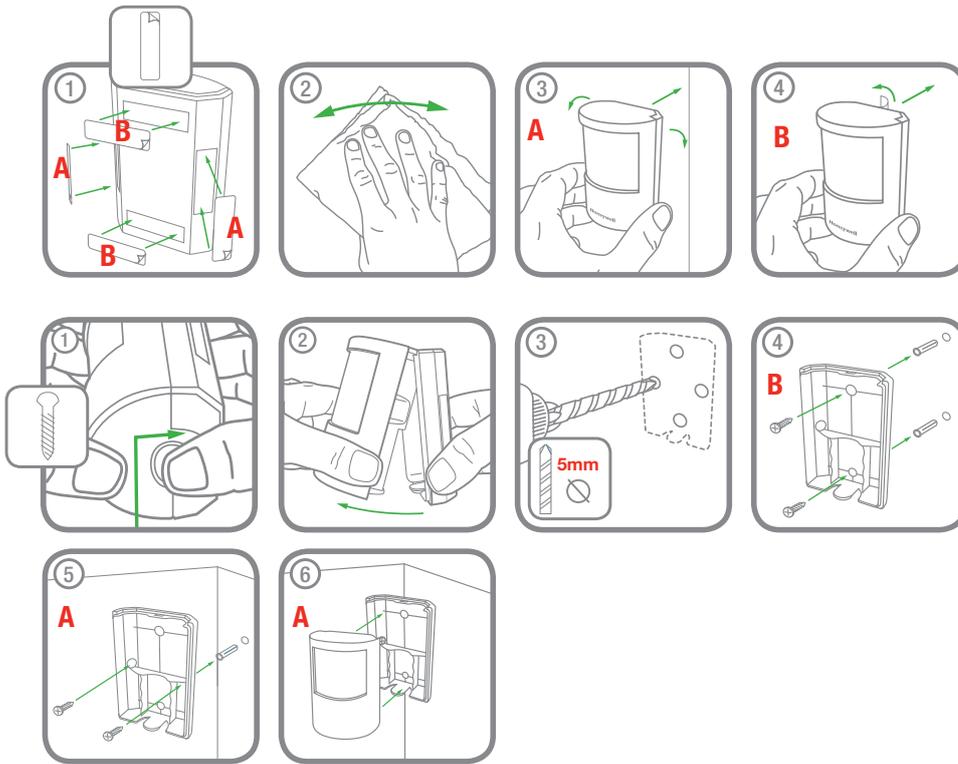
1. Initial power up:



2. Power up initialisation:



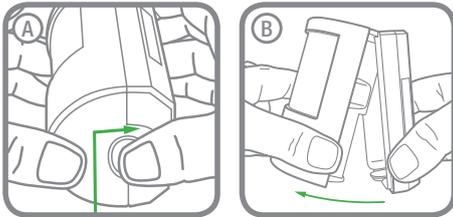
## INSTALLING AND CONFIGURING THE MOTION SENSOR



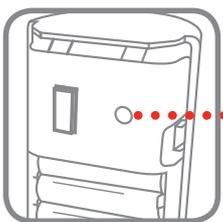
## TESTING THE MOTION SENSORS

If the Keypad has already been installed, ensure it is placed in Test or Programme Mode before testing any linked Motion Sensors to prevent a tamper alarm.

1. Ensure that the LED indicator has stopped flashing rapidly after power up.
2. Remove the battery rear cover from the Motion Sensor:



3. The 'Test Mode' button is used to put the Motion Sensor into Walk Test mode, which overrides the 2 minute sleep period and allows the operation of the sensor to be checked during installation. Press and hold the button for 2 seconds to activate Test Mode for a fixed 5 minutes after which it will automatically revert to normal operation. On initial installation the sensor can be configured into Walk Test ready for testing (i.e. pressing down the button shown for 2 seconds).



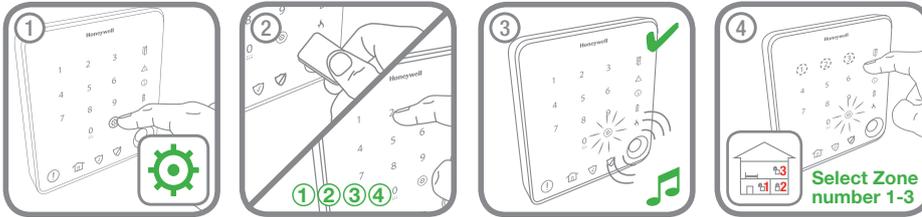
**Walk Test  
button**

4. Refit the Motion Sensor to the rear cover by offering the sensor up to the rear cover and locate the clips in the top edge into the rear cover. Push the lower edge of the sensor into place and refit into position.
5. Walk into and move slowly around the protected area within 5 minutes of pressing the test button. Each time the sensor senses movement the LED indicator behind the lens will flash.

**IMPORTANT:** In normal operation, the LED indicator behind the sensor lens will not flash on movement detection (unless the battery is low). When the sensor is fully installed (i.e. battery cover fitted and in Operating Mode), in order to conserve power and maximise battery life the Motion Sensor will only detect movement if there has been no movement detected within the previous 2 minutes.

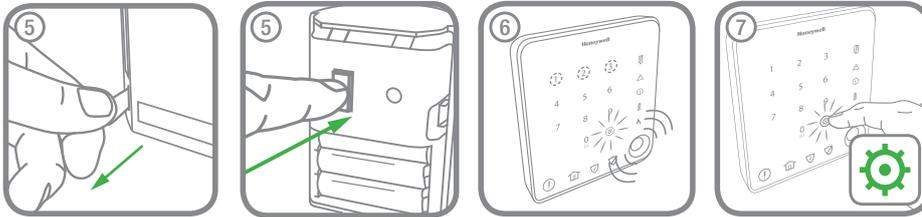
## LINKING A NEW MOTION SENSOR (PIR)

If you have purchased additional detectors, then they will require pairing with the Keypad:



**Auto linking:**

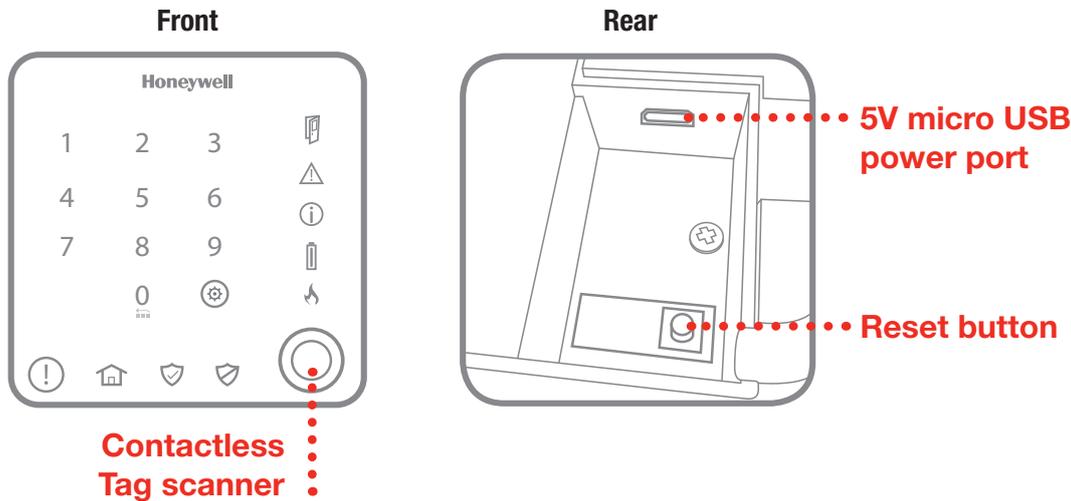
**Manual linking:**



## KEYPAD

Icon/Buttons	Function	Icon/Buttons	Function
	<b>Open Door Window Sensor alert</b> Illuminates red colour		<b>Panic button</b> Flashes red colour when pressed
	<b>Event alert</b> Illuminates red colour		<b>At Home zoning mode</b> Flashes red colour when pressed
	<b>Tamper alert</b> Illuminates red colour		<b>Arm</b> Flashes red colour when pressed
	<b>Low battery</b> Illuminates amber colour		<b>Disarm</b> Flashes green when Keypad placed in Test Mode
	<b>Smoke/CO detector alert</b> Illuminates red colour		
	<b>Programme Mode</b> For setup of Keypad Flashes amber to confirm Programme Mode entered	<b>0-9</b>	<b>For PIN code input and menu selection</b>  0 allows to navigate back in menu or clear event log  Illuminates white colour upon selection

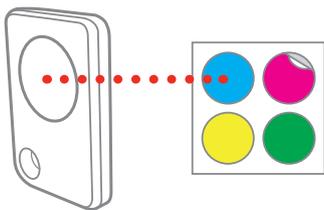
## Overview



### Contactless Tags

The Keypad has a built in Contactless Tag scanner to allow quicker access into the system rather than entering the optional 4 digit user access PIN code.

This kit is supplied with 2 tags already linked to the Keypad. Each tag can be colour coded for each user using the supplied colour stickers:



The system can learn up to 8 Contactless Tags in total.

The scanner area will flash after any of the following buttons are pressed whilst in standby mode. If the system is armed, then any linked tag or 4 digit user access PIN code must be used to disarm the system.



When flashing, the scanner listens for any linked tags moved in proximity to allow execution of a task (disarm the system, enter Test Mode or Programme Mode).

### USB power port

The micro USB port can be used with all 5V micro USB adaptors. When connected, any batteries inserted in the Keypad will function as backup power in the event of mains power loss.

**IMPORTANT:** When using USB power, it is highly recommended to use batteries for backup power and ensure they are replaced whenever the low battery indicator becomes visible. Should the USB power fail then the batteries will ensure your system will continue to protect your home.

### Reset button

Used to restore the Keypad back to factory settings (see pages 18-19).

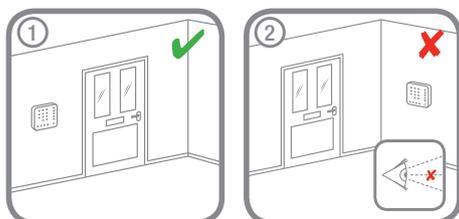
## System device capacity

The Keypad can accommodate the following devices:

Device	Capacity
Motion Sensor (PIR) and Door Window Sensor	6 per Zone or 3 Zones x 6 = 18 sensors total
Contactless Tag	8
Remote Control	5
External Siren	Unlimited
Doorbell	Unlimited
Doorbell Push Button	2
Outdoor Motion Sensor	2
Smoke/CO sensor	4
Panic button	5

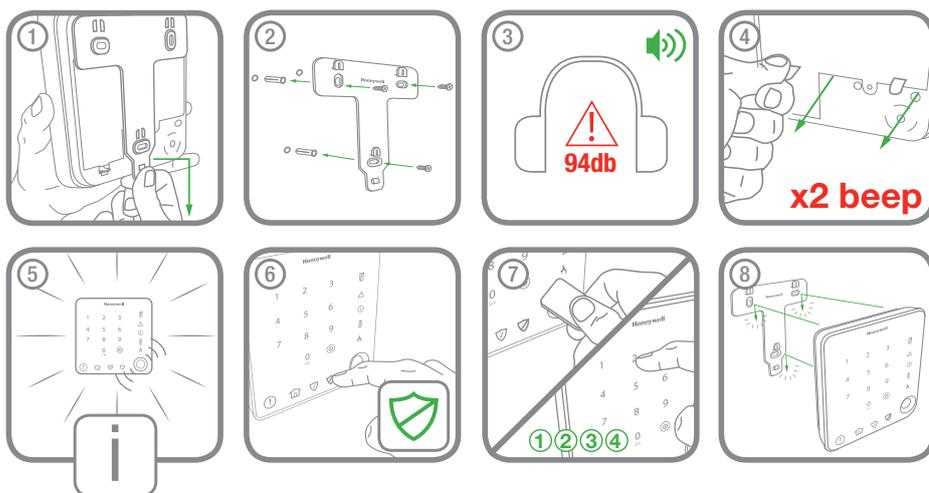
## Installing the Keypad

1. Keep the Keypad out of reach of young children.
2. Mount the Keypad to a flat surface at a height between 1.5 and 2 metres.



3. If using an optional micro USB adaptor to power the Keypad, ensure that the distance from the Keypad to the wall socket does not exceed the length of the USB adaptor cable.
4. Ensure that the Keypad is not installed close to metal objects.

### Installation:



**IMPORTANT:** Before powering the Keypad, ensure any Door Window Sensors supplied in this kit and installed on any doors/windows are in the closed position. This is because the Keypad needs to initialise with all linked sensors in the closed position.

# EXTERNAL SIREN (OPTIONAL ACCESSORY)

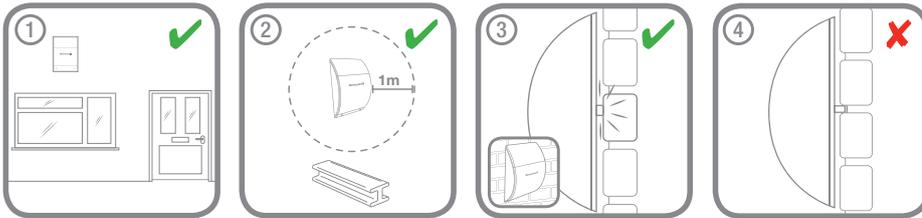
The Siren is made from a tough polycarbonate housing and is weatherproof.

An LED indicator unit is built into the Siren to act as a visible deterrent and indication that the system is active. The LEDs will slowly and alternately flash whether the system is Armed or Disarmed. When an alarm occurs the LEDs will flash rapidly together.

The tamper switch will trigger an alarm if any attempt is made to remove or interfere with the siren after installation.

The Siren is powered by 4 x D LR20 Alkaline batteries.

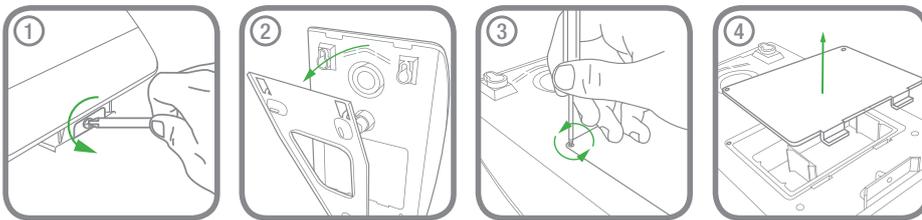
## POSITIONING THE SIREN



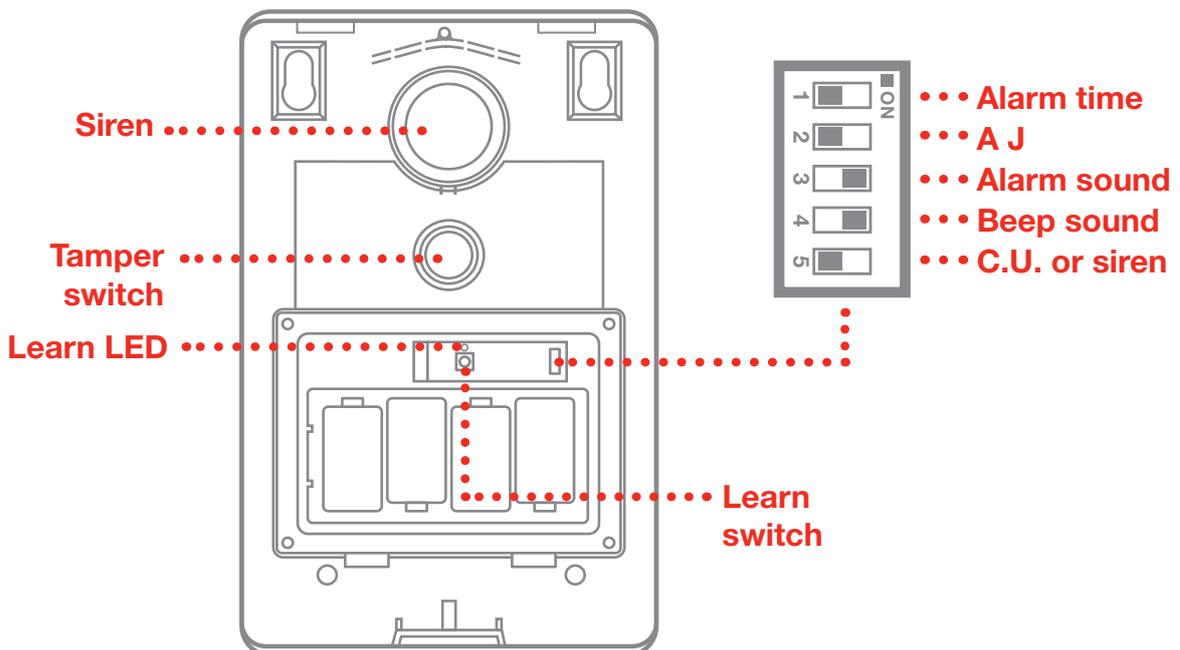
## CONFIGURING THE SIREN

If the Siren is supplied in this kit then it will already be linked to the Keypad ready for use.

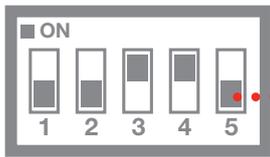
If you have purchased an accessory Siren, please refer to the instructions below and the programming section for 'Linking a Wireless Siren' on pages 19 and 21.



2. Under the cover you will also find a row of 5 DIP Switches and a 'LEARN' button.



3. Ensure that DIP switch 5 of the switches on the main board is set to **OFF** ('SIREN') for use with this alarm system.



**C.U. or Siren  
Set to 'OFF'**

4. DIP switch 1 marked '**ALARM TIME**' is used to limit the maximum period for which the external Siren will sound before it will be automatically shut down:

ON 10 minutes

OFF 3 minutes

**Default setting for this kit: OFF**

5. DIP switch 2 marked '**AJ**' does not function for this system and should be ignored.

6. DIP switch 3 marked '**ALARM SOUND**' if OFF will prevent the Siren from sounding during an alarm, (this will not affect the warning beeps):

ON Siren enabled

OFF Siren disabled

**Default setting for this kit: ON**

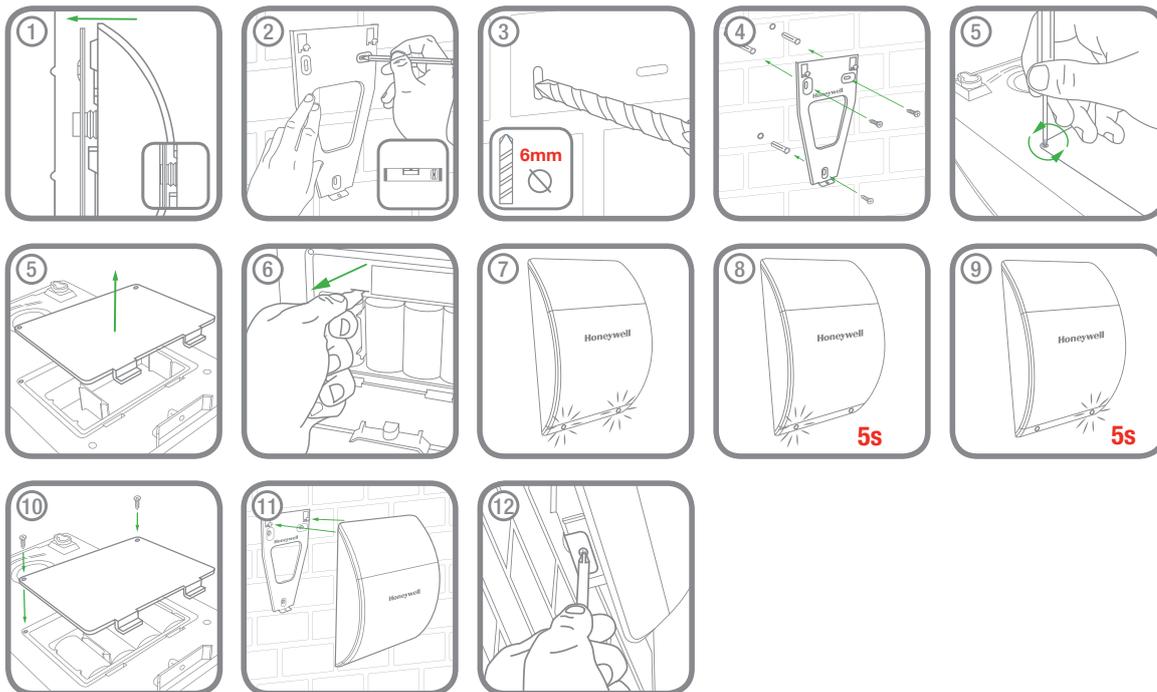
7. Switching between Service Mode and Operating Mode generates a series of beeps. It is possible to disable these acknowledgement beeps with DIP switch 4 marked '**BEEP SOUND**'.

ON Beeps enabled

OFF Beeps disabled

**Default setting for this kit: ON**

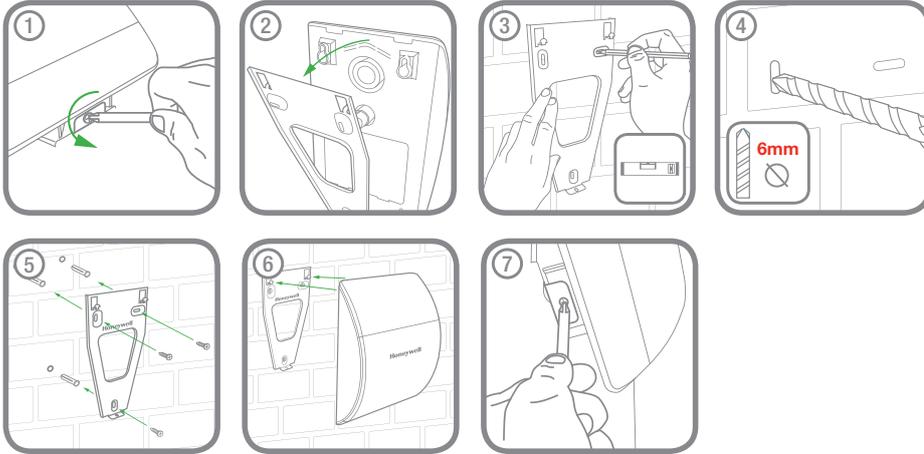
## 9. INSTALLING AND POWERING THE SIREN



10. Set the Siren into Service Mode OFF via the Keypad so that it can operate with your system (see pages 23 and 25).

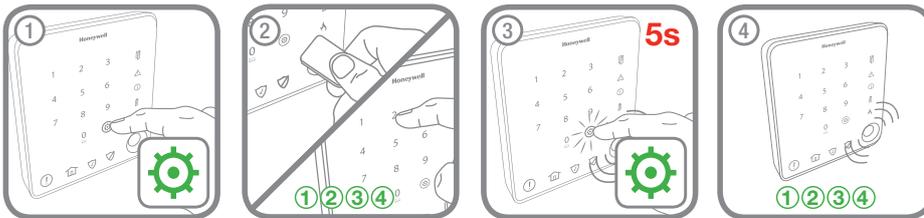
# DUMMY SIREN (OPTIONAL ACCESSORY)

The Dummy Siren is used to act as an additional deterrent in addition to the operating Siren. It would typically be mounted on the rear or side of your premises.

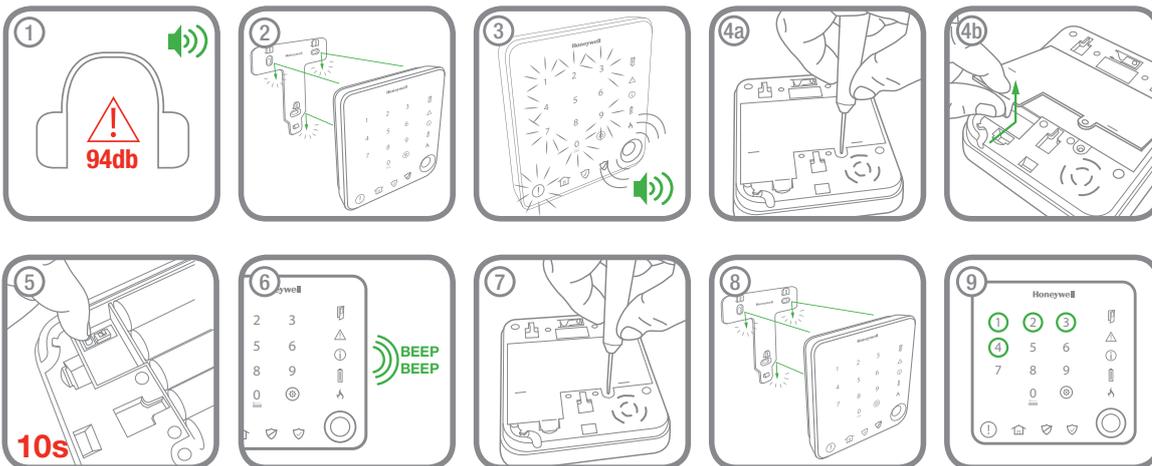


# USER PIN CODE RESET

Using any linked Contactless Tag:



When both tags and password lost:



# FACTORY SETTINGS AND RESET

## Defaults

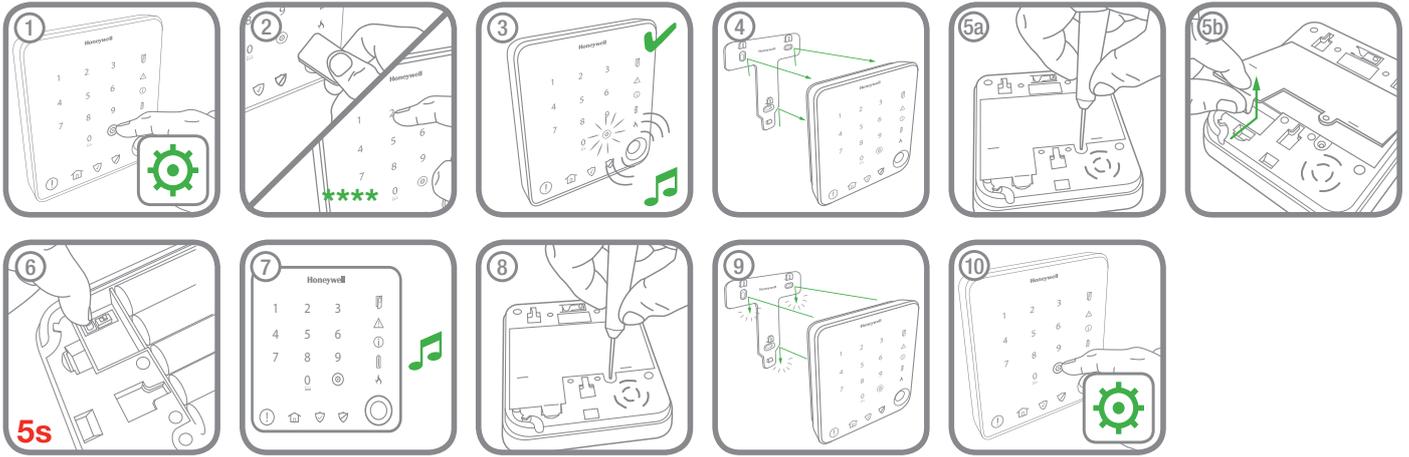
User Access PIN code: 1234

Home mode (Part-Arm): Zone1&2

All supplied door contacts in all kits linked to Zone1

All supplied Motion Sensors in all kits linked to Zone2

When a factory reset is performed, all linked devices will be lost and will require linking again with the Keypad.



## PROGRAMMING AND KEYPAD BATTERY LIFE

The expected battery life for the Keypad is typically 12 months, based on arming and disarming the system 3 times/day and triggering an alarm once per month.

However if a substantial amount of programming/operation is performed using battery power, this will impair the battery life.

It is advised to use a micro USB adaptor to power the device during substantial programming/setup or operation. Any standard 5V micro USB power adaptor is compatible. See **'Alternative Power Options For Keypad'** page 29.

## PROGRAMMING MODE

With the system in Standby (i.e. in Disarm Mode):



The programme button LED  will always remain flashing throughout Programme Mode to indicate this.

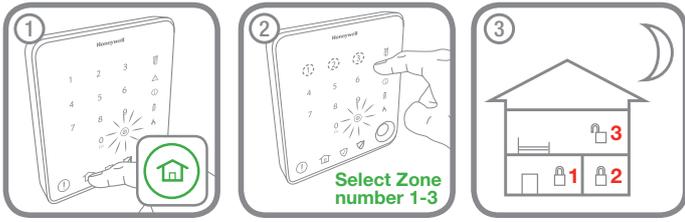
After performing a programming operation, press 0 to return back to the top level programming menu or press  to exit and return back to Standby Mode.

### Change User Access Code



## Configuring at 'Home' zoning mode (Part-Arm)

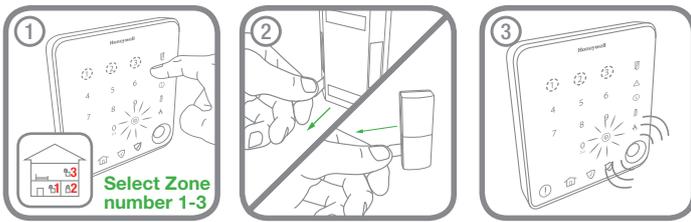
The Zones which are armed under Home mode can be changed:



## Linking/deleting Motion Sensor/Door Window Sensor devices

### Linking internal Motion Sensors or Door Window Sensors

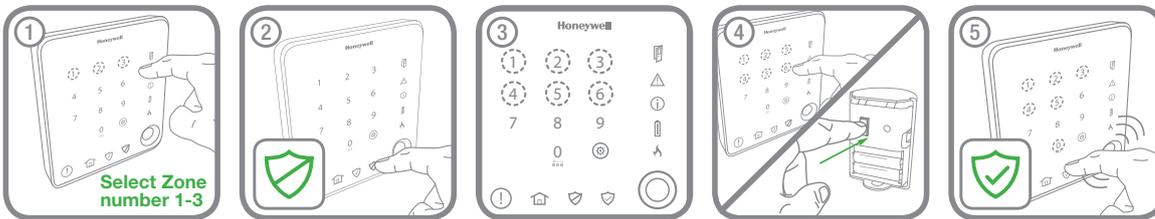
The Keypad has 3 security Zones with each Zone allowing up to 6 Motion Sensor/Door Window Sensors to be linked.



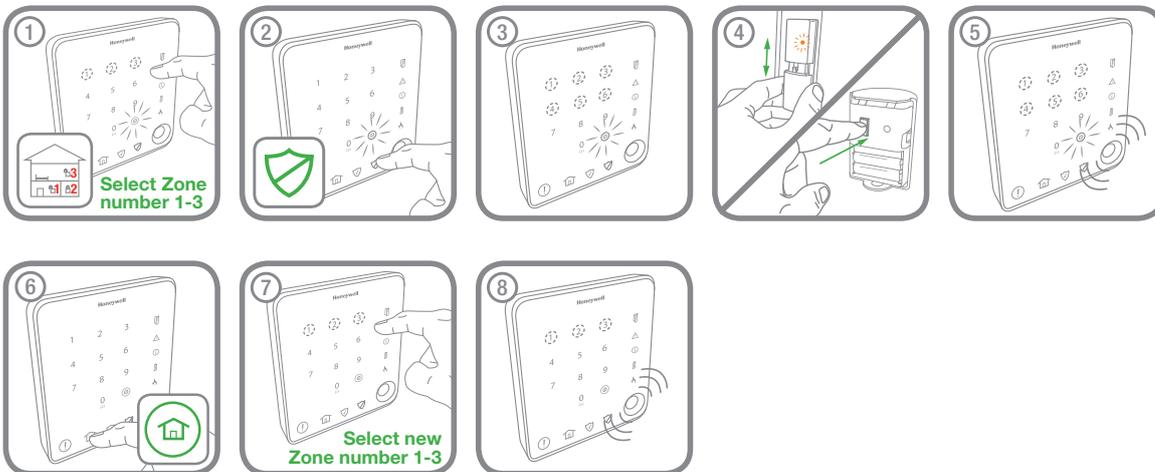
If the auto learn on power up fails then operate the tamper switch to link it.

If the maximum capacity '6' has been reached in each Zone then the Keypad will not accept any further detectors.

### Deleting security sensors or checking current Zone capacity

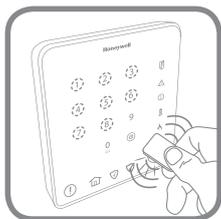


### Moving existing linked Motion Sensors or Door Window Sensors between Zones

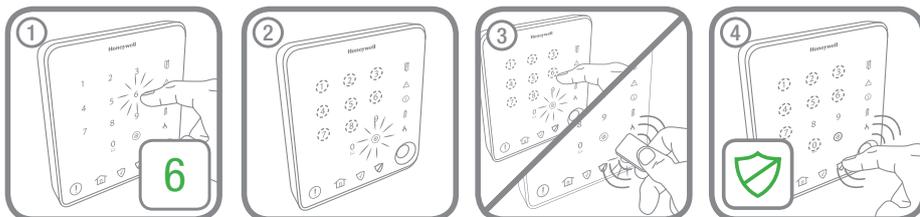


## Linking Contactless Tags (1-8)

Up to a maximum of 8 tags can be paired with the Keypad.

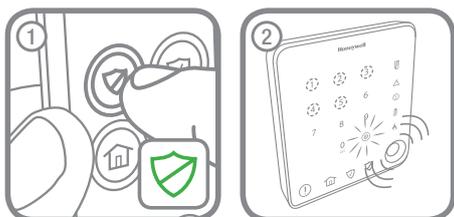


## Deleting Contactless Tags (1-8)

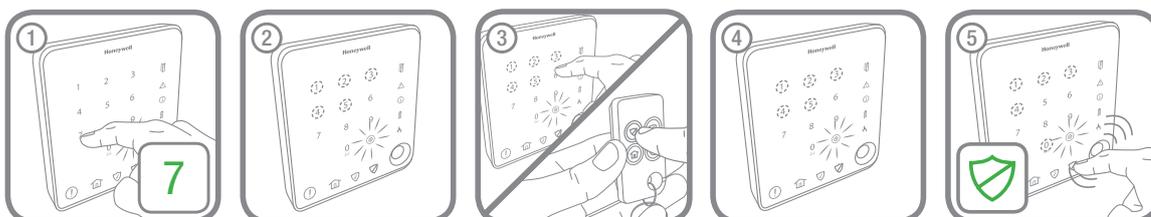


## Linking a Remote Control Fob (1-5)

The Keypad allows up to 5 remote controls to be linked.



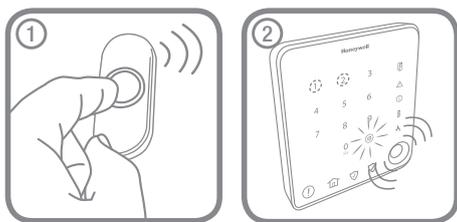
## Deleting a Remote Control Fob (1-5)



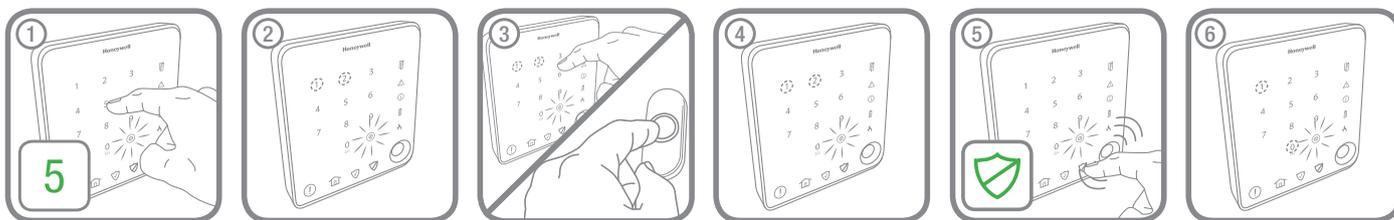
## Linking a Wireless Siren (Optional)



## Linking a Push Button (1-2)

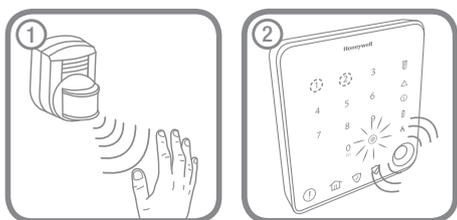


## Deleting a Push Button (1-2)

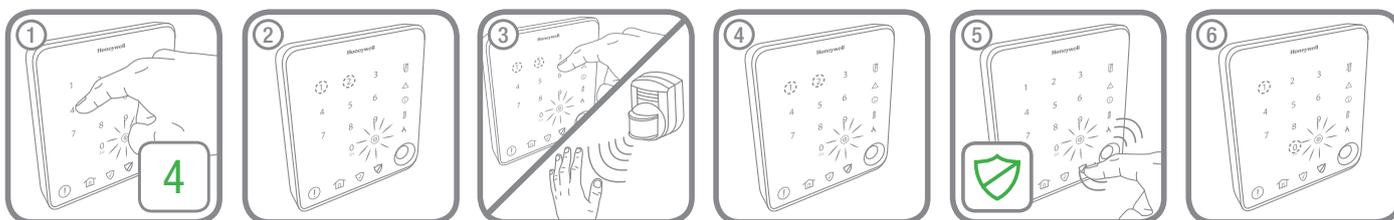


## Linking an Outdoor Motion Sensor (1-2)

Place the Outdoor Motion Sensor into Walk Test Mode first:



## Deleting an Outdoor Motion Sensor (1-2)

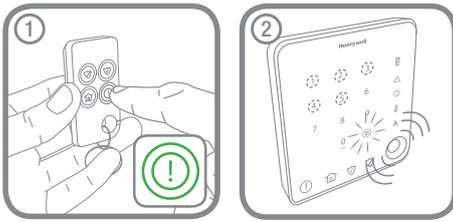


## Linking a Doorbell

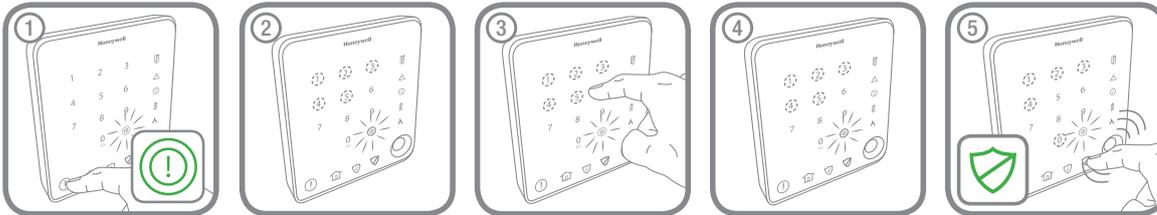
An 868MHz Honeywell doorbell can be linked to the Keypad to act as an additional internal alarm in addition to the Keypad alarm.



## Linking a Panic button (1-5)

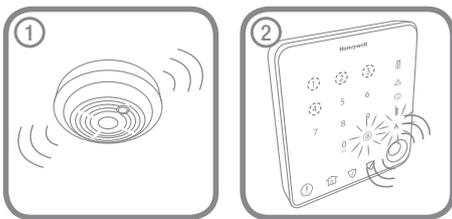


## Deleting a Panic button (1-5)



## Linking a Smoke/CO sensor (1-4)

A maximum of 2 Smoke sensors and 2 CO sensors can be linked.



## Deleting all linked Smoke/CO sensors



## TEST MODE

---

The Keypad has a built in test facility to enable you to test the system at any time. However it is recommended that the system is tested at regular intervals not exceeding 3 months.

With the system in Standby (i.e. in Disarm Mode)



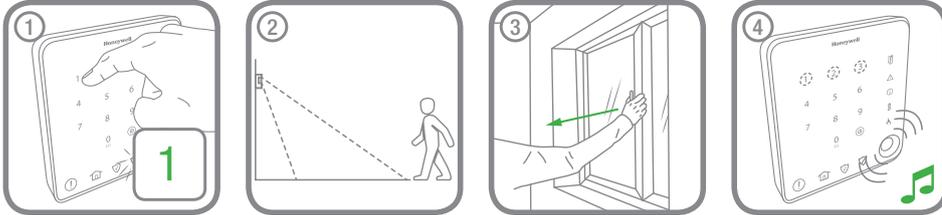
The Disarm button LED will always remain flashing throughout Test Mode. The Keypad will return back to Disarm Mode if no operation is made within 5 minutes of entering Test Mode. After performing a programming operation, press 0 to return back to the top level of Test Mode menu or  to exit and return back to Standby Mode.

## Sensor Walk testing

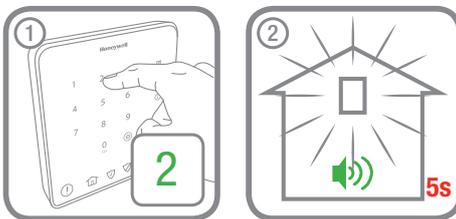
Sensor Walk testing is used to check that a sensor communicates to the Keypad correctly.

Before commencing testing please ensure that there is no movement in any Motion Sensor protected area for at least 2 minutes, all doors/windows protected by Door Window Sensors are closed, and that all battery covers are correctly fitted.

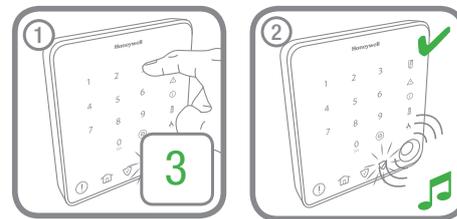
An automatic time-out while in Walk Test will automatically exit the test if no signal is received from any linked device in a 5-minutes period. Each time a valid signal is received the 5 minutes time-out period will be reset.



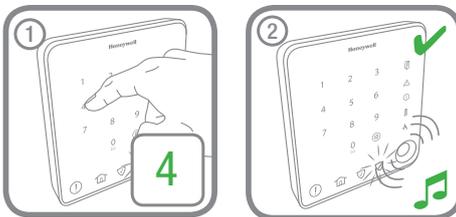
## External Wireless Siren test



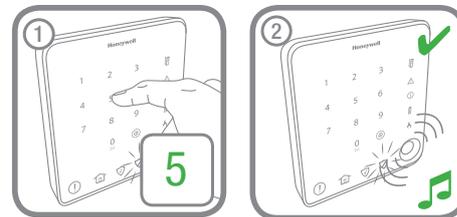
## Internal Siren test



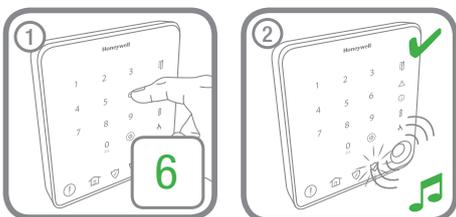
## Muting doorbell alert for any linked Push Buttons



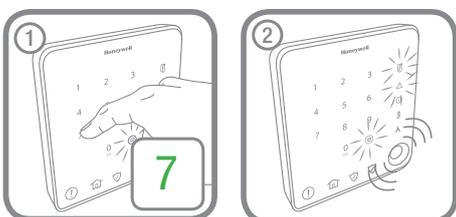
## Muting the alert sound for all linked Outdoor Motion Sensors



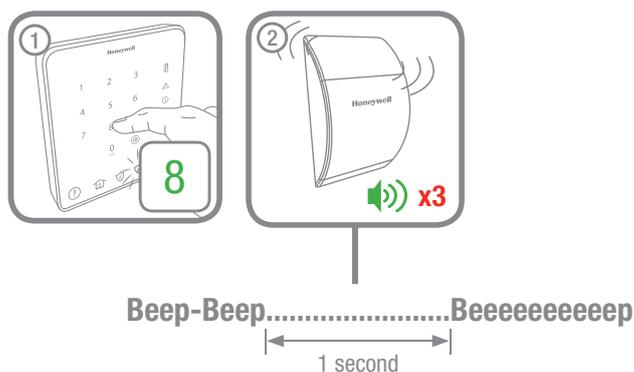
## Alert sound for Internal Motion Sensors



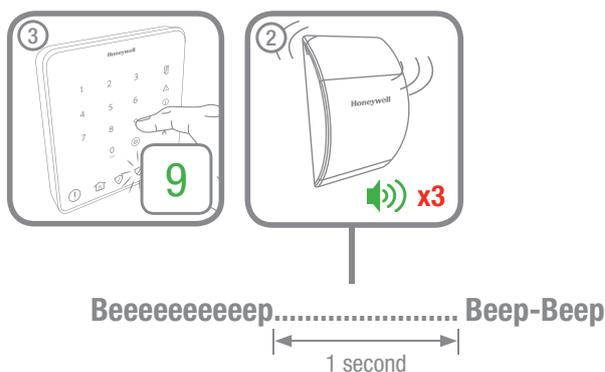
## Alert sound for Zone1 Door Window Sensors



## Siren Service mode



## Siren Operating mode (Service mode OFF)



## DOORS/WINDOWS OPEN UPON ARMING

The Keypad has the ability to warn if any doors or windows have been left open when you attempt to arm the system. This is provided the system is only armed via the Keypad.

The following door and window 'open' indicator on the Keypad will illuminate, followed by the Zone number.



At this point you are advised to close the corresponding door(s)/window(s), before pressing the arm/home button again to continue arming the system.

You can continue to forcibly arm the system with any door(s)/window(s) left open and the indication will clear during the 30 second exit delay.

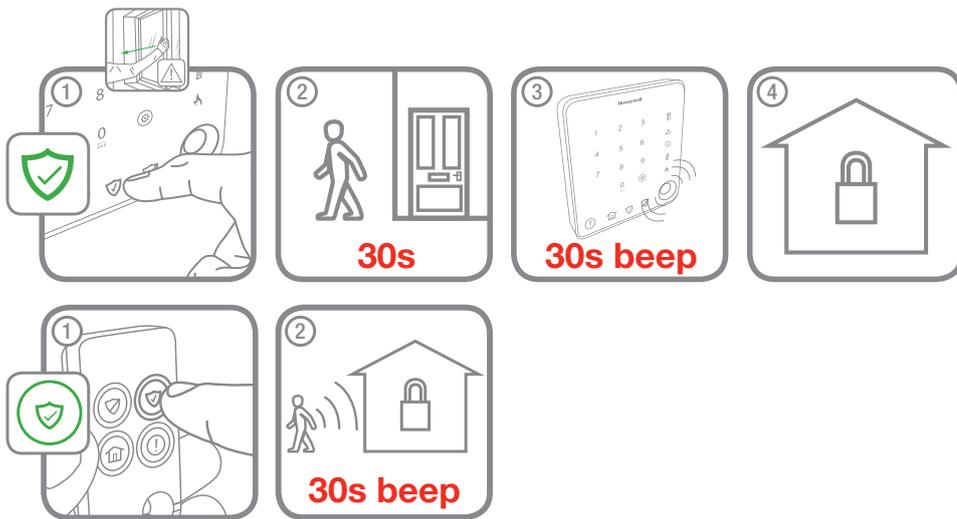
**IMPORTANT:** If any Zone1 doors/windows have been left open for more than 5 minutes of arming the Keypad, then the keypad will alert you to this. All Zone1 Door Window Sensors have a 5 minute delay to allow occupants to leave the home after any entry/exit door is opened by the first occupant and the last person may take a minute or more to arm the Keypad before closing the door. Zones2&3 do not have any delay and will alert instantly upon arming the Keypad if any Zone2/3 doors/windows are open.

If any linked Remote Control Fob is used to Arm/Home-Arm the system then the system will produce an alert sound to warn of any Door Window Sensors being left open, but will continue arming the system. If you arm the system from outside the premises, this assures you that the system will be armed from one touch on the Remote Control Fob.

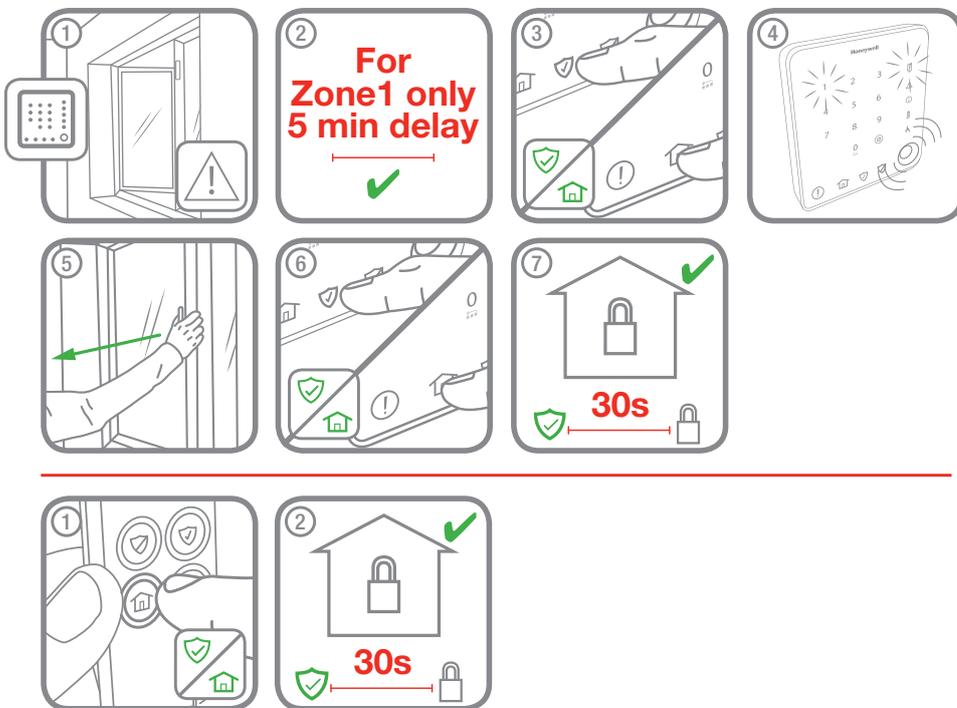
## OPERATION

- Ensure all doors/windows are closed before operating this system.
- Any pets are not restricted to areas protected by Motion Sensors.
- If testing the system, ensure any Motion Sensors have not detected movement within the last 2 minutes due to its battery-saving feature. The Motion Sensor will wake up again after 2 minutes.

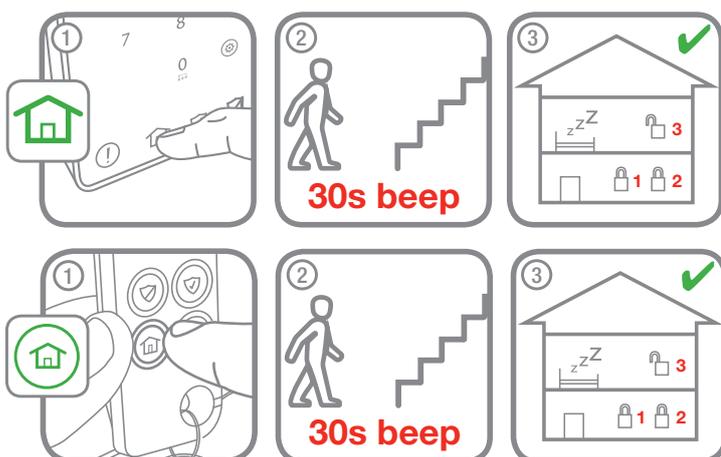
## Fully Arming



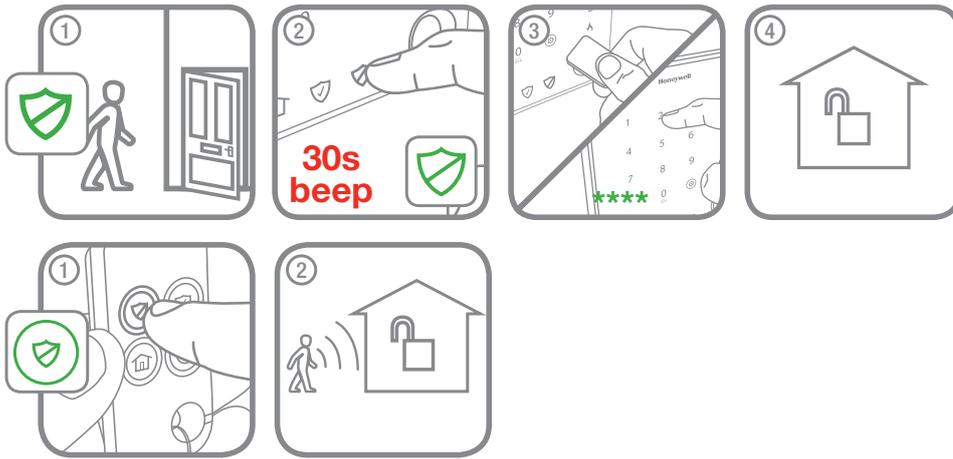
## Door/window open:



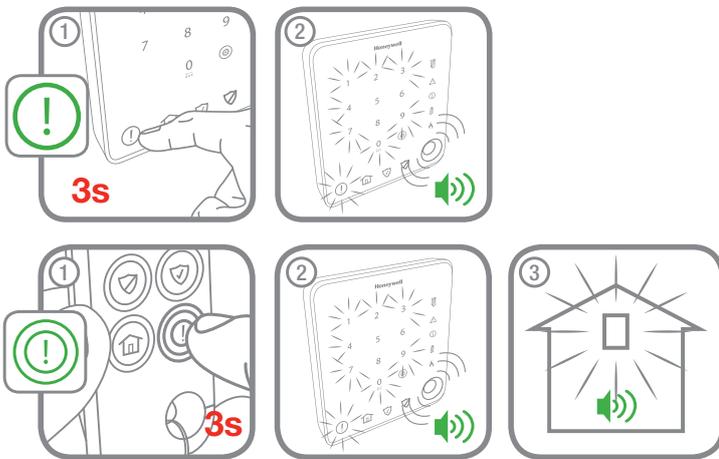
## Home mode/Part-Arming



## Disarming



## Panic Alarm



## Event Alert

The event LED  will illuminate on the Keypad and an alert sound will be played to warn of any events. The Keypad will only display the latest event.

Any events displayed will only be illuminated for up to 1 minute and automatically clear.

To manually clear any event press the back button .

Typical Events	LEDs Illuminated							
						Zone 1	Zone 2	Zone 3
Alarm triggered by Door Window Sensor	•	•				•	•	•
Alarm triggered by Internal Motion Sensor	•					•	•	•
Alarm triggered by Smoke/CO sensor	•				•			
Tamper alarm Keypad/User access PIN code lockout	•			•				
Tamper alarm Door Window Sensor	•	•		•		•	•	•
Tamper alarm Internal Motion Sensor	•	•		•		•	•	•
Low battery from Keypad	•		•					
Low battery Door Window Sensor	•	•	•			•	•	•
Low battery Internal Motion Sensor	•		•			•	•	•

If the system receives any events whilst armed, then it will display this event upon disarming the system. This might typically be if an alarm was triggered whilst away.

## **User Pin Code Lockout**

If any attempt to input the User Access PIN code incorrectly more than 4 times is made, the Keypad will lockout for 1 minute. If this is repeated 3 times then an alarm will be generated by the system to indicate that the system might be being tampered with.

## **Alarm Duration**

All alarm sounds in the Keypad are limited to 1 minute unless disarmed by the user within this period.

## **Door/Window Open Alert Zone1**

The Keypad can alert every time if any Zone1 door window sensors are opened when the system is in a disarmed state alerting home occupants of any entry/exit to the home. An alert sound is produced by the Keypad when triggered.

To select this function refer to programming section 'Alert sound for Zone1 Door Window Sensors' on page 24.

## **Internal Motion Sensor (PIR) Alerts**

The system can alert you if any Internal Motion Sensors are triggered when the system is in a disarmed state alerting home occupants of any movement detected within the home. An alert sound is produced by the Keypad when triggered.

After this function is selected, all Internal Motion Sensors will be active. If any Motion Sensor is triggered then the Keypad will alert you to this and will not detect any further movement for the next 2 minutes due to the sensor's sleep period.

It is worth considering not installing any Motion Sensors in any areas where you will be continually occupying.

To select this function refer to programming section 'Alert sound for Internal Motion Sensors' on page 24.

## **Doorbell Push Button**

The Keypad has a built-in doorbell features for visitors.

If any linked push button is activated, then by default the Keypad will produce a successful alert sound.

This can be muted if required (see Test Mode section 'Muting Doorbell alert for any linked Push Buttons' page 24). You may wish to mute the chime sound if the push is also paired with a separate Doorbell receiver, which produces an alternative melody.

## **Outdoor Motion Sensor Alert**

The Keypad is compatible with 868MHz Honeywell Outdoor Motion Sensors.

If any linked Outdoor Motion Sensor is triggered, then by default the Keypad will produce an alert sound to differentiate it from a push. If the Motion Sensor is being triggered too frequently, possibly due to false triggers, than this sound can be muted (see Test Mode section 'Muting the alert sound for any linked Outdoor Motion Sensors' page 24).

## **Doorbell Receiver**

The Keypad can be linked with any 868MHz Honeywell Doorbell.

The Doorbell will act as an additional internal siren in addition to the Siren built into the Keypad. The Siren will only activate under all alarm conditions.

## Device Tamper

If the battery cover of any device (except a Remote Control Fob) is removed or if the Siren or Keypad is removed from the wall, then an alarm will immediately occur (unless the system is in Test or Programme Modes), even if the system is Disarmed.

The Tamper LED on the Keypad will illuminate to indicate a Tamper alarm event.

After disarming the system, press '0' to clear the indication.

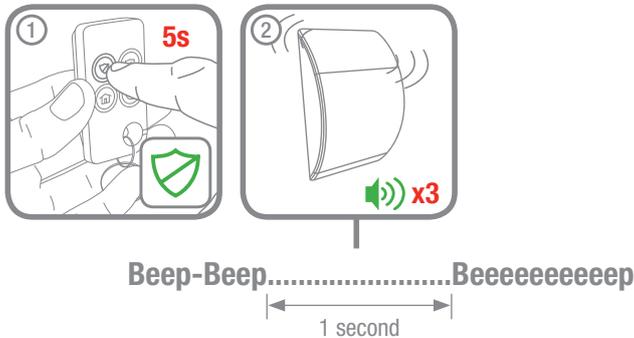
**Note:** The Tamper protection facility on the Siren operates independently of the Keypad. If the Tamper on the Siren is activated this will not be indicated at the Keypad.

## Siren Service Mode ON/OFF

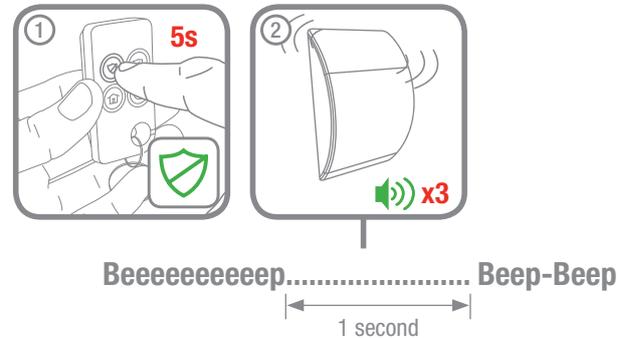
The Siren includes a Service Mode facility which prevents the Siren's tamper switch from triggering an alarm while it is removed from the wall for maintenance such as replacing the batteries. After refitting the Siren back in position, the Siren must be placed back into Operating Mode (Service Mode OFF), otherwise it will not sound in the event of an alarm.

For Siren Service Mode ON/OFF see page 25 for further details. Any Remote Control linked to the Keypad can also be used as follows:

### Siren Service mode



### Siren Operating mode (Service mode OFF)



## ZONE LOCKOUT

If a sensor on an active Zone is triggered while the system is armed, the alarm will sound. After the programmed alarm duration has ended, the alarm will stop and the system will automatically reset. Subsequent sensors triggered will again trigger an alarm. If a single Zone triggers an alarm more than 3 times then that Zone will become 'Locked Out' and any further alarm signals from that Zone will be ignored until the system is disarmed.

## ALTERNATIVE POWER OPTIONS FOR KEYPAD

It is advised to use a 5V USB adaptor to power the device whenever there is substantial programming or operation. Typical optional functions which will impair the battery life if selected and used daily are Doorbell Push Button alerts, Outdoor Motion Sensor alerts and Zone1 door entry alerts. Any typical 5V micro USB power adaptor is compatible with the Keypad.

Lithium AA LR06 batteries can alternatively be used to power the Keypad, and you should expect to see approximately 10% increase in battery life.

It is also possible to use rechargeable NiMH AA LR06 batteries with the Keypad, but the Keypad will not recharge these batteries regardless of any optional micro USB adaptor being used. The batteries must be fully charged when inserted and recharged again when indicated by the Keypad as low-battery status.

## BATTERY MONITORING

### Low Battery Condition

All system devices continuously monitor their battery condition. When a low battery indicator is activated, the battery for that device should be replaced as soon as possible.

In addition, if any Motion Sensor, Door Window Sensor or Smoke/CO Sensor has a low battery status it will be indicated by

LED  on the Keypad. Refer to section 'Event log' for details.

Before removing the battery cover on any device except Remote Control devices, ensure that the system is put into Test or Programme Mode to avoid triggering an Alarm. For an external Siren, the device must be placed into Service Mode before being removed from the wall:

The low-battery indication built into each system device is as follows:

### Keypad:

When batteries in the Keypad are low, then the low-battery icon will indicate this alone.

### Remote Control Fob:

When the Remote Control Fob is operated under low battery conditions, the transmit LED will flash 3 times after the button has been released. Under normal battery conditions for the Remote Control Fob, the LED will extinguish within 2 seconds of the button being released.

### Motion Sensor (PIR):

Under low battery conditions the LED behind the sensor lens will flash 3 times when movement is detected to indicate that the battery needs to be replaced. Under normal battery conditions the LED does not illuminate unless the Motion Sensor is in Walk Test Mode.

### Door Window Sensor:

Under low battery conditions, when the sensor is activated, the LED will flash 3 times as the door/window is opened.

Under normal battery conditions the LED will not illuminate as the sensor is operated (unless the sensor is in Test Mode with the battery cover removed). The indicator on the Keypad can be cancelled by pressing '0'. The LED will start flashing on receipt of the next low battery signal.

<b>Keypad:</b> 8 x 1.5V AA LR6 Alkaline batteries (or equivalent)
<b>Remote Control Fob:</b> 1 x 3V CR2032 Lithium Cell (or equivalent)
<b>Door Window Sensor:</b> 1 x 3V CR2032 Lithium Cell (or equivalent)
<b>Motion Sensor (PIR):</b> 3 x 1.5V AAA LR03 Alkaline Batteries (or equivalent)
<b>Siren:</b> 4 x 1.5V D LR20 Alkaline Batteries (or equivalent)

## MAINTENANCE

All devices with the exception of proximity tags are battery powered. After a low battery indication is displayed on the device, the battery should be replaced.

The Siren does not incorporate a low-battery indication feature and it is recommended to replace the batteries once every 18 months. If the LEDs on the Siren stop flashing then replace the batteries immediately.

**IMPORTANT:** Before replacing the batteries in any Door Window Sensor, Motion Sensor or Keypad, the Keypad must enter Programming Mode to prevent a Tamper alarm. Press the programme button to return back to Disarm Mode after replacing any batteries:

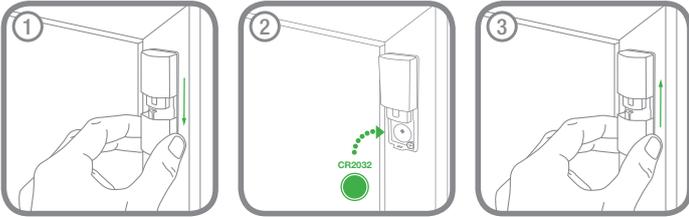


## Remote Control Fob



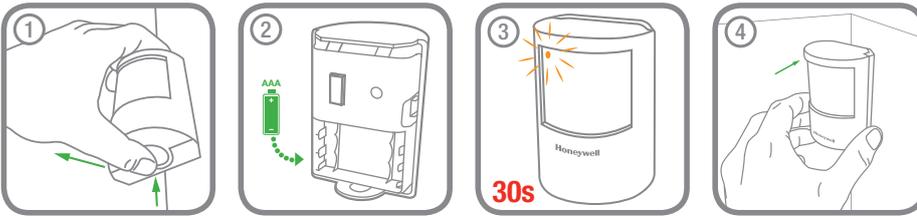
## Door Window Sensor

Ensure system is in Programme Mode. See above.



## Motion Sensor (PIR)

Ensure system is in Programme Mode. See above.

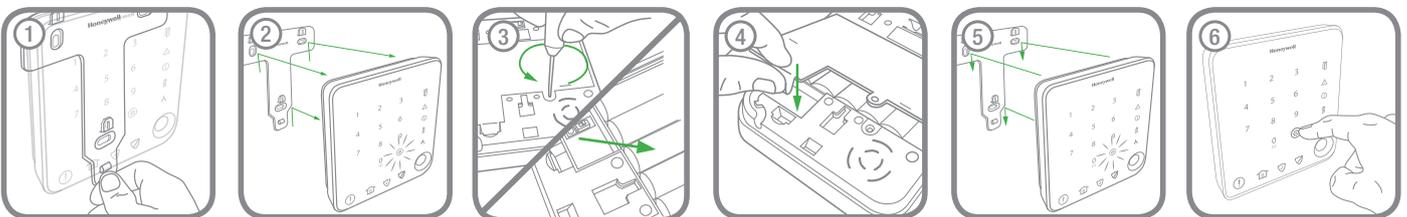


## Keypad

If changing batteries in the Keypad whilst any doors/windows are left open, after the batteries are replaced, the Keypad will not know the status of the Door Window Sensor. Therefore all doors/windows must be closed in order to restore the current sensors status in the Keypad.

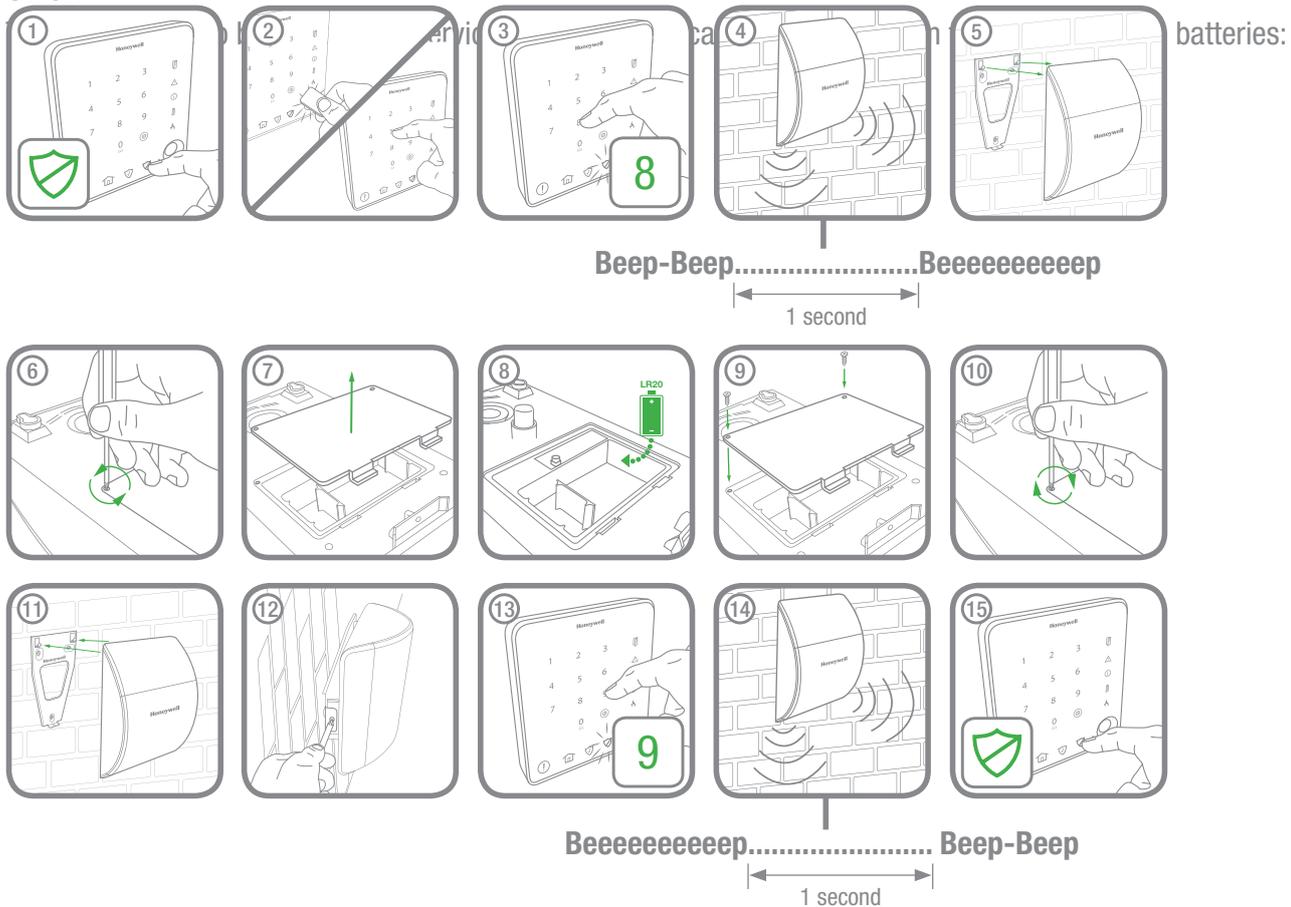
1. Ensure system is in Programme Mode. See page 30.

2. Remove the Keypad from the wall bracket:



If the Tamper alarm is triggered when refitting the Keypad to wall, then press the Disarm button followed by entering the PIN code or using a Contactless Tag to silence the alarm.

## Siren



## TROUBLE SHOOTING

### Symptom / Recommendation

#### Keypad unit not working

1. Ensure the batteries are inserted correctly, checking the polarity.
2. If using an optional micro USB power adaptor, check that the adaptor is plugged into the micro USB port located in the battery compartment and the socket is switched ON.
3. Check fuse/MCB in Consumer Unit on the circuit serving the Keypad if using an optional power adaptor.

**Note:** Before replacing any fuses or resetting the MCB, the cause of the failure should be investigated and rectified.

#### Keypad does not respond to any button presses

1. If the Keypad does not respond, wait for 1 minute and retry.
2. Remove the batteries from the Keypad and replace after 5 seconds. Before the Keypad is removed from the wall wear suitable ear defenders in case an alarm is triggered.

#### Keypad unit 'Low Battery' LED flashing

1. Check all Motion Sensors, Door Window Sensors, Keypad (if batteries inserted) and Smoke/CO sensors for low battery indication, (i.e. for PIRs the LED behind detection lens flashes when movement detected or for Door Window Sensors, the LED on the unit will flash upon opening the door/window). Renew batteries as required.

2. If the low battery LED flashes far within the expected 12 months battery life, this is likely caused by increased programming operations performed using the Keypad. If required, use any 5V micro USB adaptor to power the panel.

### **Keypad unit not accepting User Access Code**

1. Pause between key depressions too long. Do not pause for more than 5 seconds between pressing keys.
2. Incorrect code entered.
3. Reset to factory defaults and reprogramme system.

### **Contactless Tag not working with Keypad**

1. Press the Programme  or Disarm button  first to activate the reader.
2. Tag held too far from the scanner on the Keypad. Hold the tag closer in proximity to the illuminated blue area on the Keypad.
3. ID of Tag not learnt by Keypad.

### **Door/window open status not recognised or incorrectly indicated by the Keypad**

1. Close the relevant door/window and check the status on the Keypad again.

### **Detection Zone triggered but no alarm is sounding.**

1. Entry/Exit delay still running and not yet expired.
2. Zone lockout due to 3 alarms already occurred. Disarm the system to reset the Zone followed by re-arming system.

### **Door/window open LED did not illuminate when arming the system even though the corresponding Door Window Sensor was left open**

1. If any Zone1 Door Window Sensors have been opened within 5 minutes of arming the system then the system will ignore Zone1 sensors being left opened. Only Door Window Sensors on Zone2 and Zone3 left open will illuminate the LED upon arming the system.
2. Check and replace the batteries in the corresponding Door Window Sensor.
3. Ensure ID of sensor has been learnt into a Zone (1-3).

### **Siren's LEDs not working**

Check batteries in Siren and replace if low.

### **Siren not responding to Keypad.**

1. Check if Siren still in Service Mode. If so then switch to Operating Mode.
2. Ensure 'ID Code' is learnt by the Keypad.
3. Ensure main Siren configuration switch is set to SIREN.
4. Incorrect User Access Code being entered at Keypad.

5. Ensure Siren is within effective radio range of Keypad and equipment is not mounted close to metal objects.
6. Siren's batteries too low – replace if at end of useful life.

### **Full Alarm sounds when system has not been triggered by an intruder or is disarmed**

1. Tamper switch activation
  - a. Check all sensor battery covers to ensure correctly fitted.
  - b. Check Keypad and Siren are securely mounted to the mounting bracket and tamper switch is closed.
2. Panic Alarm operated from a Remote Control Fob or Keypad.

### **LED on optional Remote Control not illuminating, or is dim when unit is operated**

1. Ensure the battery is inserted correctly, checking the polarity.
2. Ensure battery holder connections are making good contact with the battery.
3. Battery flat – replace battery.

### **Motion Sensor (PIR)**

1. Ensure that the Sensor is not pointing at a source of heat or a moving object.
2. Ensure that the Sensor is not mounted above a radiator or heater.
3. Ensure that the Sensor is not facing a window or in direct sunlight.
4. Ensure that the Sensor is not in a draughty area.

### **Motion Sensor (PIR) not detecting a person's movement**

1. Ensure the batteries are inserted correctly, checking the polarity.
2. Ensure 'ID Code' is learnt by the Keypad in a particular Zone.
3. Ensure that the Sensor is mounted the correct way up (i.e. with detection window at top).
4. Ensure that the Sensor is mounted at the correct height (i.e. 2-2.5 metres).
5. Allow up to 2 minutes for Sensor to stabilise and become fully operational. Leave the area for this period.
6. Ensure the Sensor is within effective radio range of the Keypad and is not mounted close to metal objects which may interfere with radio transmission.

### **Motion Sensor (PIR) LED flashes on detection of movement (device in normal Operation Mode)**

1. Motion Sensor still in Walk Test Mode for fixed 5 minutes if the PCB button was activated.
2. Low battery – replace battery.

### **Door Window Sensor not working**

1. Ensure that the gap between magnet and detector is no more than 10mm.
2. Ensure battery fitted with correct polarity (correct way around).
3. Ensure 'ID Code' is learnt by the Keypad into any Zone (1-3).

4. Ensure Sensor is within effective radio range of Keypad and is not mounted close to metal objects which may interfere with radio transmission.

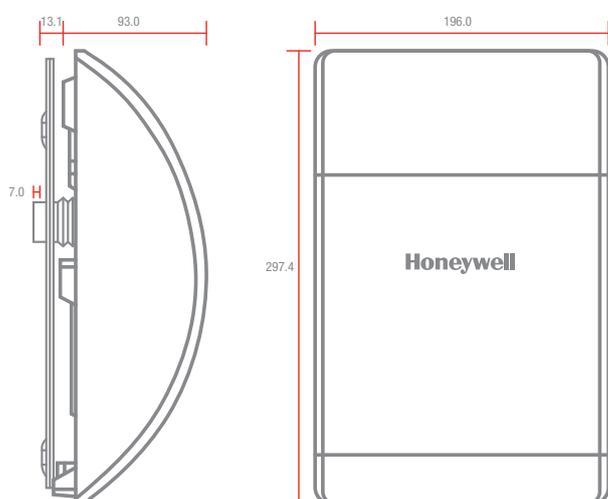
### Door Window Sensor false alarming

1. Ensure that the gap between magnet and sensor is no more than 10mm.
2. Tamper switch under the front cover is not depressed – check battery cover is fitted correctly and that fixing lugs are not broken.

### LED on Door Window Sensor illuminating when door or window is opened

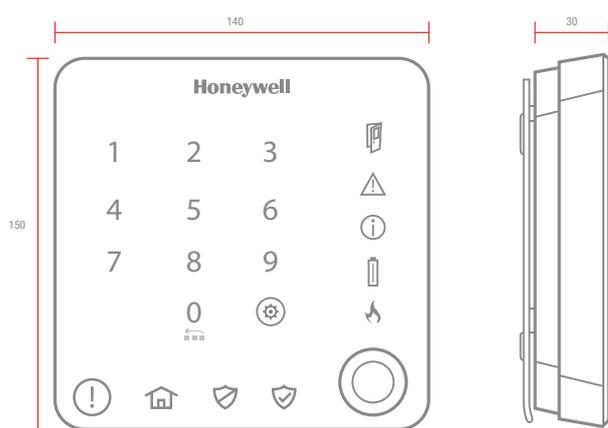
1. Low battery – replace batteries.
2. Battery cover not fitted correctly or removed.

## COMPONENT SPECIFICATION



### External Battery Siren (optional)

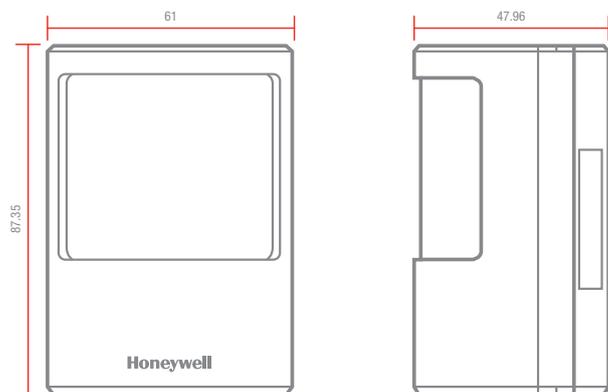
- RF operating frequency: 868MHz
- 4 x 1.5V D (LR20) Alkaline battery power
- 105dB Piezo Siren
- 10 minutes alarm duration limiter (optional)
- Siren Disable (selectable)
- Rear anti-tamper protection
- Jamming Detection
- Audible confirmation
- Battery life ~18 months



### Contactless Keypad

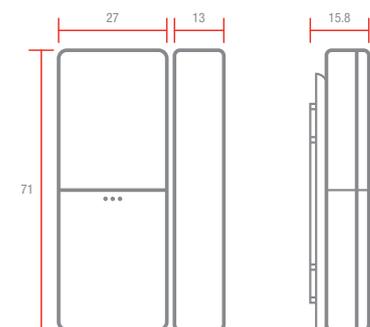
- RF operating frequency: 868MHz
- Range: 125 metre max.
- 8 x 1.5V AA (LR6) Alkaline battery
- 5V Micro USB power port for optional mains power
- Capacitive front touch panel
- Selectable "Keypad/C.U" modes (keypad mode can operate with other 868MHz alarm systems)
- Low-Battery Status Indication and for detectors
- 3 Zones – Intruder (For "C.U" mode only)
- Part-Arm Facility (For "C.U" mode only)
- Instant Zone1 and Delayed Zones 2&3 (For "C.U" mode only)
- 30 seconds entry/exit delay (For "C.U" mode only)
- Entry/exit warning (For "C.U" mode only)
- Zone lockout (For "C.U" mode only)
- 94dB Piezo Siren
- Programmable 4 digit User Access Code
- Contactless tag for quick access
- Rear anti-tamper protection
- Battery life >12 months
- Low battery indicator

## Motion Sensor (PIR)



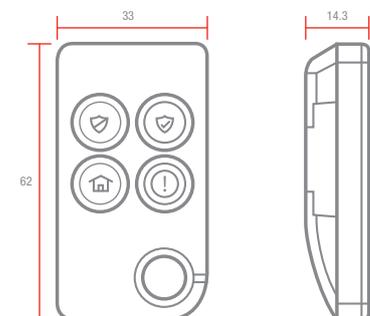
- RF operating frequency: 868MHz
- Range: 200 metre max.
- Detection range: 12 metres at 105°
- Walk Test facility
- Anti-tamper protected
- Corner or surface mount
- Battery life >2 year
- 3 x 1.5V AAA (LR03) Alkaline battery
- Low battery indicator

## Door Window Sensor(s)



- RF operating frequency: 868MHz
- Range: 200m metres max.
- Test Mode
- Anti-tamper protection
- Battery life >2 years
- 1 x 3V CR2032 Lithium battery
- Low battery indicator

## Remote Control Fob (Optional)



- RF operating frequency: 868MHz
- Range: 150 metres max.
- Panic Button
- Operates all ARM, HOME/PART-ARM, and DISARM functions
- Transmission indicator
- Battery life >2 years
- 1 x 3V CR2032 Lithium battery
- Low battery indicator

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