Sterling

Series 400

Wireless Alarm Movement Detector (PIR)

User Manual 400 PIR

Contents

Important Information

Before connecting or operating the Movement Detector (Passive Infra Red – "PIR"), please read these instructions carefully and save this manual for future reference.

The **400 Series Wireless Alarm System** is one of the most affordable and expandable wireless alarm systems available. You'll discover that the system offers many features typically found in custom installed Alarm systems.

The **400 Series Wireless Alarm System** is reliable and easy to use. You can start small and expand as you need.

The **400 Series Wireless Alarm System** uses digital technology which provides increased security and trouble-free wireless connections. It only responds to signals from your Detectors / Accessories in and around your home and avoids anyone from tampering with your system.

The user manual explains in simple steps how to install, use and care for your new **Sterling 400 Series Wireless Alarm** Movement Detector.

Introduction

The Movement Detector is designed to be used indoors. (It can also be used on external buildings such as sheds or workshops but should not be exposed to rain). Passive Infra Red (PIR) movement sensors are used to detect movement. PIR's are sensitive to the heat generated by human bodies, and are triggered when a person moves within the detection area of the sensor.

When mounted properly it can monitor large open areas such as entrance, living rooms, landings and kitchens etc. When the detector senses movement it will transmit a signal to the Control Panel. The settings on the Control Panel determine if an alarm, alert or chime sounds.

Parts Check List

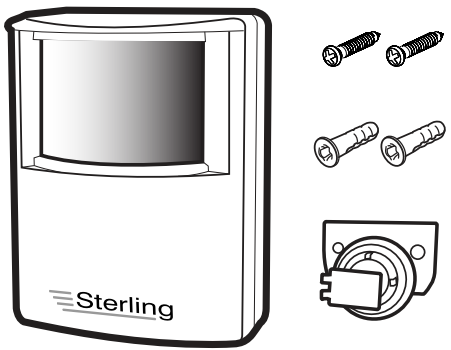
Identify all the parts before proceeding.

Movement Detector (PIR) with mounting bracket

2 - Screws

2 - Plastic rawplugs

Ball Head Joint



Preparing the Movement Detector (PIR) for Installation

The Movement Detector consists of 2 parts – The Detector (Transmitter) and the wall mount. Before installing, remove the screw from the battery door on the back of the Detector. You'll need to attach the battery leads to a "9V" battery (not included); Take care to note the polarity markings.
Replace the battery cover and secure screw. An Alkaline "9V" battery in the Movement Detector can last up to 9 months.

Before mounting the Motion sensor, you'll need to assign the Detector to a zone on the Control Panel.

Assigning a Detector to a Zone

Assigning a Detector into a Zone is an easy 4 step process; however there are a few points to remember

- Only one Detector / Accessory can be assigned at a time.
- A Detector cannot be assigned to two different Zones.
- Up to four Detector can be added per Zone (if a fifth Detector/Accessory is added then the first Detector will be replaced.)
- Batteries must be active in the Detector before it can be assigned to a Zone.
- Detector can be assigned to a Zone and then mounted, or can be mounted and then assign to a Zone.

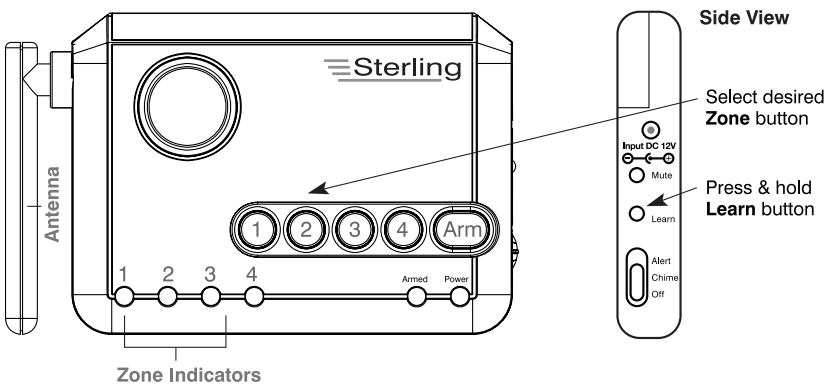
For the Movement Detector, attach the “9V” battery leads to the battery.

Step 1 – Press and hold the Learn button on the Control Panel for three seconds. The Control Panel beeps once. Release the Learn button.

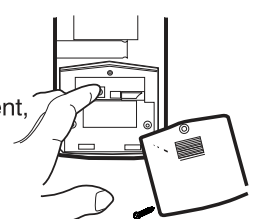
Step 2 – Press the Zone button (1, 2, 3 or 4) for the Zone you want to assign to the Detector. The LED indicator for that Zone will begin to flash.

Step 3 – Release the Zone button.

Note: Zone 4 is for dedicated alerts only. Detectors in this Zone will not trigger an alarm or chime.



Step 4 – Activate the Detector
To activate the Movement Detector, press the Learn button located inside the battery compartment, **or** if mounted, wave your hand in front of the Detector (the red LED indicator will flash inside lens area in front of the Movement Detector).
The Detector is now assigned



Testing a Detector or your system

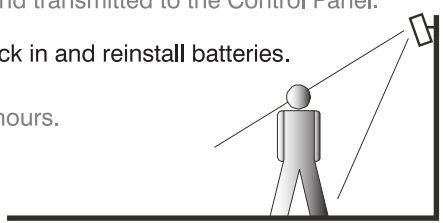
Once all the Detectors/Accessories have been assigned to Zones in the Control Panel you can now test your system.
This allows you to test a Movement Detector in Zones 1, 2, 3 without arming the system.
Ensure the Control Panel can receive the signal from the intended location of the Detector before permanently mounting a Detector.

Step 1 - Unplug AC adapter from the Control Panel and remove batteries.

Step 2 - Press and hold the 'Mute' button and plug the AC adapter back into the Control Panel. When all the LED indicators turn on, release the Mute button. The Control Panel is now in Test Mode and any Detector can now be tested in any Zone.

Step 3 - Set the Notification Mode to 'Alert' position on the Control Panel and begin activating Detectors one at a time.

Note: The detector has a LED that flashes to show when the Detector has triggered and transmitted to the Control Panel.

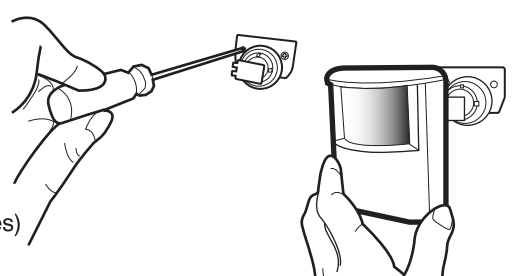


Step 4 - When testing is complete, unplug the AC adapter, then plug the AC adapter back in and reinstall batteries. This returns the Control Panel to standard operation mode.

Note: The Control panel will automatically return to standard operation mode after 5 hours.

Installing the Movement Detector

Use the ball-head mount to mount the Detector.
The minimum height recommended is 1.5 / 2 metres (5-6 ft), depending on where you want to mount the Movement Detector.
Once the location is selected, before mounting you should perform a manual test to confirm the Movement Detector is within range of Control Panel.
Refer to the Testing a Detector section above.
Mount the ball-head joint to the location with screws provided.
Once the ball-head joint is mounted to the wall, slide the back of the Detector onto the ball-head joint.
The mounting angle can be adjusted. (detection angle 110˚, range up to 10 metres)



Note: Movement Detectors (PIR's) can also be used to protect specific items that might be targeted by intruders (i.e. electronic equipment, TV's, stereos and/or computers). Position the Movement Detectors (PIR) so it is directed at the equipment from an opposing wall or corner.

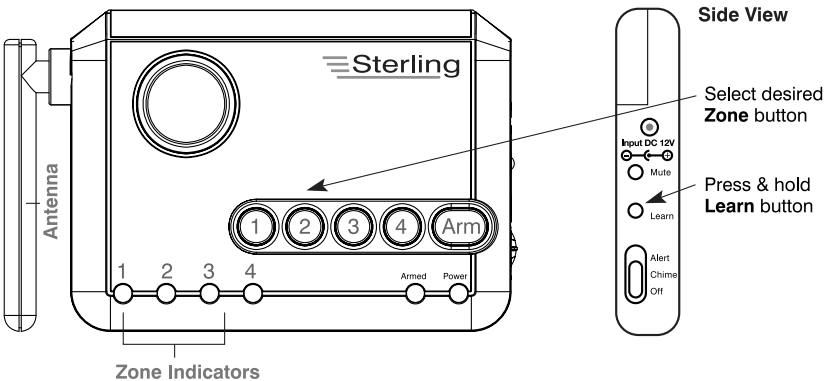
Erasing a Detector from a Zone

Note: If you need to remove a Detector from a Zone, the system will erase the entire Zone, so any other Detector's will need to be put back into that particular Zone.

Step 1 - To erase a Zone, press and hold the Learn button on the Control Panel. The unit will beep once.

Step 2 - While holding the Learn button, press and hold the Zone button to be erased. After five seconds the Control Panel will sound two beeps and the Zone LED indicator will flash twice.

Step 3 - Release all buttons.



Note: The Zone/Detector cannot be erased if:

- The Zone has been triggered for an Alert or alarm, the Detector/Zone must be reset.
- There is loss of signal from the Detector to the Control Panel (such as low battery, or Detector is out of range).
- The system is armed.

The Control Panel will sound three beeps to indicate it could not erase the Zone.

Low Battery Indicator (Detectors)

The Control Panel continuously monitors all the Detectors. If the Control Panel does not receive a signal from any Detector it will begin rapidly flashing the Zone LED indicator. This indicates one or more detectors in the Zone may have low battery power and are unable to transmit a signal the necessary distance. If all batteries and/or Detectors are installed at the same time into a Zone, it is recommended to replace the batteries in all Detectors in the Zone.
However, you can check the Detector's status independently by placing the Control Panel in Test mode (see Testing a Detector on page 4) and trigger each Detector separately. If the Detector does not trigger an alert then replace the batteries.

Note: The detection status system is 'range dependant', which means detectors located closer to the Central Control Panel may seem to have batteries that last longer than those Detectors at a greater distance. Also, keep in mind, because the Movement Detector is continually checking for activity the battery life is less than the lithium cell batteries in the other Detectors.

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Model No.	Description	Battery Type	Battery Life*
400PIR	Motion Detector	(1) "9V"	9 months

* maximum potential life based upon usage and location

Troubleshooting

Q. I bought a new Detector and the Control Panel will not recognise it. Why?

A. First, make sure that the batteries are new and that the battery is inserted into the Detector according to polarity (+/-) markings. Second, make sure that you have assigned the Detector to a Zone.

Q. I put the Detector on Zone 4 and it will not set off the alarm. Why?

A. Zone 4 is a Dedicated Alert Zone and is designed to monitor Detectors in this Zone. It will only issue an alert (LED will flash, continuous beeping will be heard). Detector in Zone 4 will not set off the alarm. Use Zone 4 for areas that you want to monitor (i.e. areas that you want to be alerted if there is a problem, but do not want the alarm to sound).

Q. I erased a Detector from a Zone and now all of my other Detector in that Zone will not work. Why?

A. The system can only erase entire Zones. You will need to add the other Detector back in that Zone to the Control Panel again

Q. I put the Detector in a Zone (1, 2, 3) and it will not sound in any Alert modes. Why?

A. The Motion Detector only functions as an Alarm Detector in Zones 1, 2, 3. It will not activate a chime, visual or audio alert. For an Alert only, it must be in Zone 4, but will not activate the alarm.

Q. How can I tell if the Detector is working?

A. Each Detector has an LED that indicates the Detector is operating (flashes when triggered). However if the battery is too weak, the signal may not reach the Control Panel. This will cause low battery indication on the Control Panel (See pg 5)

Q. Why does one of my Zones continually flash?

A. This can be caused by 1 of 2 conditions.
First condition, if it is a rapid flash it means a Detector in the Zone has a low battery. If more than one Detector is in a Zone, you will need to test each Detector by putting the unit into test mode (see pg. 4 of manual). It may also be that a Detector is out of range and cannot make contact with the Control Panel. If this is the case, you may need to move the Control Panel closer. The Second condition, if it is a slow flash, one of the Detectors is triggered. Check all Detector to ensure the Detector in the Zone are reset (i.e. close door, window, etc).

Q. If one Detector has a low battery, should I replace all of the batteries?

A. If Detectors were added at the same time, it is likely all the batteries will need to be replaced.

Q. How do I know if any Detectors have low batteries?

A. The Control Panel will indicate if any Detector does not have sufficient power to transmit a status signal (battery is low). You can also check each Detector independently by using the Test Mode (see pg. 4 in manual).

Q. If one Detector has a low battery; will the other Detectors in the Zone (or other Zones) continue to operate?

A. Yes, as long as the other Detectors have sufficient battery power, they will continue to transmit information to the Control Panel and the system will operate normally.

WARNING

Limitations of Alarm Products

This product should be tested periodically to make sure it is working properly. The product, if used properly, may reduce the risk of burglary, robbery, or other adverse events. However, Sterling Locks Limited is not an insurer, this product is neither insurance nor a guarantee that such an event will be prevented, and users should protect themselves with proper insurance.
Sterling Locks Limited makes no representation that this product cannot be compromised or circumvented, that it will provide an adequate warning, or that it will prevent any personal injuries, property damage, or other losses. Like any alarm product, including expensive commercial systems, it may be bypassed, it is subject to compromise, and it may fail to warn for a variety of reasons, including, but not limited to: improper installation or positioning; improper maintenance; tampering; dead or improperly installed batteries; sensing limitations; component failures; receivers; for infrared products, intrusions may be outside of a product's designed range and certain environmental conditions may impact performance and audible alarm signals may be outside of hearing range, muted by doors, walls, and floors, unheard by deep sleepers or the hearing-impaired, or overwhelmed by other sounds.

Risk of personal injury

- Prolonged exposure to alarm siren may cause permanent hearing loss

Battery Warning

- Remove batteries before storing the Alarm for extended periods
- Batteries may leak harmful liquids or ignitable materials or explode causing injury and product damage
- Do not mix old and new or other battery types
- Replace all batteries at the same time
- Replace fully discharged batteries immediately

Important safeguards

1. Cleaning – Unplug adapter and remove batteries from control panel before cleaning. Do not use strong or abrasive cleaners or solvents. Use a dry cloth to clean the surface of the Control Panel. In case the dirt is hard to remove, use a damp (not wet) cloth for cleaning.

2. Water and Moisture – Do not use any component of this system in an exposed outdoor area except those specifically designed for that purpose.

3. Precautions - Do not attempt to disassemble the Control Panel or any of the Detectors or Accessories unless described in the user's manuals. There are no user serviceable parts.

4. Handle with Care – Avoid striking or shaking improper use or storage could damage the Control Panel. Modifying or tampering with the device or its internal components can cause a malfunction and void the Control Panel's warranty.

If you feel any part of the 400 Series Wireless System is not operating correctly as described, please contact Customer Service for assistance 0113 391 1299

Guarantee

This product (excluding batteries) is guaranteed for one year from the date of purchase against faulty materials or workmanship. We will repair or replace any faulty product. No liability can be accepted for any problems caused by fair wear and tear, buyer's negligence, improper fitting or use, local radio interference, wilful or accidental damage, or any consequential loss or damage howsoever caused. This guarantee does not affect your statutory rights and is valid in the UK and Eire only.

If an item develops a fault, the product must be returned to the address on the packaging with:

1. A copy of your original invoice/receipt.

2. A full description of the fault.

3. All relevant batteries.

For security, Recorded or Registered Post is recommended.

Wireless technical specifications

All components are designed and manufactured to provide a high standard of security protection and long, reliable service. In addition, the radio devices are tested and approved by the Radio Regulatory division of the Department of Trade and Industry (DTI) to ensure that they will not interfere with other radio equipment. No radio licence is required; however, the approved radio frequency is not protected from interference and may be withdrawn from use at any time subject to the DTI giving users an appropriate notice period.
We practice a policy of continued improvement and reserve the right to change specifications without prior notice.

Frequency: 433.92MHz

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