

product. Take care to insert the batteries with the correct polarity as shown inside the battery compartments. Do not mix new and old batteries or different types of batteries. Do not use rechargeable batteries.

At the end of their useful life the batteries should be disposed of via a suitable recycling centre. Do not dispose of with your normal household waste. DO NOT BURN.

8. Alarm System Limitations

Even the most advanced alarm systems cannot guarantee 100% protection against burglary or environmental problems. All alarm systems are subject to possible compromise or failure-to-warn for a variety of reasons.

Please note that you may encounter problems with your system if:

- The sensors are not placed within hearing range of persons sleeping or remote parts of the premises.
- The sensors are placed behind doors or other obstacles.
- Intruders gain access through unprotected points of entry (where sensors are not located).
- Intruders have the technical means of bypassing, jamming, or disconnecting all or part of the system.
- The power to the sensors is inadequate or disconnected.
- The sensors are not located in proper environmental/temperature conditions i.e. too close to a heat source.

FCC Regulation: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Note: Inadequate maintenance is the most common cause of alarm failure; therefore, test your system at least once per week to be sure the sensors and sirens are working properly. Although having an alarm system may make you eligible for reduced insurance premiums, the system is no substitute for insurance.

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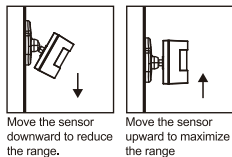
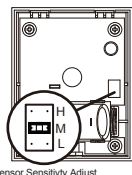
3.2 Installing the Motion Sensor

- Drill the holes and insert wall plugs.
- Attach the bracket to the mounting surface with the screws provided.
- Attach the Motion Sensor to the mounting bracket.

3.3 Sensor sensitivity

IMPORTANT! The Motion Sensor is designed with a built-in sleep timer to save battery power. The Motion Sensor will sleep for 3 minutes after every trigger. Any movement detected in sleep mode will not be reported, please bear this in mind.

The sensitivity of the Motion Sensor is adjustable and can be changed by setting the connector, found in the battery compartment, on either the "High", "Middle" or "Low" position. When the sensitivity is set to "Low", more movement is required to trigger the sensor. It is recommended to set the sensitivity to "Low" and perform a "Walk Test" (Described in part 3.4). If the walk test result is satisfactory, the sensitivity does not require further adjustment. If the walk test result shows the sensitivity is too low, then the sensitivity can be set to "Middle" or "High" as required. It is recommended that a walk test be conducted after each change in sensitivity setting.



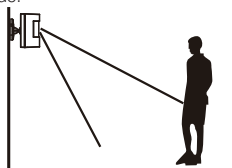
The distance at which the sensor can detect motion can be adjusted by altering the angle of the sensor. To reduce the detection range, simply move the sensor downward and move the sensor upward to maximize the range.

3.4 Walk test

It is important to perform a walk test in order to determine if the sensor is detecting the correct area.

Since mounting the sensor at the desired location and power up, the motion sensor will go into a TEST Mode which will last for 10 minutes. This allows you to check if the sensor is detecting the correct area. You should walk in the area which is expected to monitor. When movement is detected, the red light inside the unit will appear, you have 10 seconds to adjust the mounting angle accordingly if not and test again. Repeat this procedure until motion is detected. After 10 minutes, TEST Mode change into work mode.

*** Tips: The sensor should not face towards direct sunlight, be placed near heat or cold producing devices (i.e. air conditioning, radiators, fans, ovens, heaters etc.) that may cause false triggers. Also perform the walk test in areas which the sensor is not intended to cover, to ensure movement cannot be detected.**



4. House Security Code Settings

Unless the factory settings of the Wire-free Home Protection System Smart Panel have been altered, the House Security Code will NOT need to be changed.

However, if the settings on the Smart Panel have been altered, or need to be altered to solve the problem of the Smart Panel and sensors activating intermittently (or not working at all) or

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Model WS-103X

RED SHIELD PIR MOTION SENSOR INSTALLATION AND OPERATING INSTRUCTIONS

For use with Red Shield Wire-free Home Protection System

Please keep these instructions in a safe place for future reference.

Kit contents:

- 1 x Red Shield Motion Sensor
- 1 x Ball-head joint mounting bracket
- 3 x Screws and wall plugs
- 1 x Instruction leaflet
- 1 x CR123A Battery

1. Introduction

The Red Shield PIR Motion Sensor is designed to trigger the Red Shield Wire-free Home Protection System Smart Panel when it senses movement in a given area.

2. Location

First determine the location of the Sensor, which should be placed:

- on a solid surface between 1.8m to 2.4m (6ft to 8ft) from the floor.
- near key entry/exit points.
- away from extreme temperature sources (radiators, ovens, stoves etc.) and large metal objects that could interfere with the wireless performance.
- away from direct sunlight.
- indoors only and not behind partitions.
- where better RF performance can be achieved (if necessary).

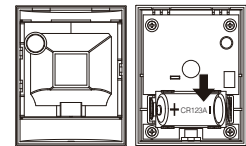
IMPORTANT! The Motion Sensor is immune to pets moving on the floor or climbing on furniture as long as the activity takes place below 1m (3ft). Above the 1m (3ft) height limit, adjust the sensitivity of Motion Sensor to "Middle" or "Low" position so more movement is required to trigger the sensor but the pet immunity will decrease as the pets get closer the sensor. It is important to perform a "Walk Test" (Described in part 3.4) with your pets.

3. Installation and Operation

3.1 Powering up the Motion Sensor

Remove the battery cover, insert and connect a 3V battery as shown in diagram below and replace the cover (Battery : a CR123A (3V)).

- Low battery indication: If the batteries need to be replaced, the RED LED will flash (not including entry / exit delay flashing).



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interference with other systems, then the House Security Code on all system modules (sensors and sirens) will also need to be changed.

House Security Code settings can be altered as follows:

- There are 4 jumpers or dip-switches on each device.
- Remove the jumper compartment cover, then pull out or plug the jumper into the contacts to change the House Security Code.
- If a jumper is plugged it is ON if it is removed it is OFF. Default code is with all the jumpers plugged.
- To ensure the system works correctly, make sure the jumpers on the Smart Panel and all other system modules (sensors and sirens) match exactly.

Jumpers for house security code	<p>HOUSE CODE 4 3 2 1</p>	<ul style="list-style-type: none"> - Smart Panel - Each sensor Default house code: 1: ON, 2: ON, 3: ON, 4: ON *Jumper: ON = Plugged, OFF = Pull Out
Dip-Switches for house security code		<ul style="list-style-type: none"> - Key Fob Remote / Keypad Control Default house code: 1: ON, 2: ON, 3: ON, 4: ON

5. Zone Code Settings

The sensor is supplied with a pre-assigned Zone setting. The sensor can be assigned to a different zone as follows:

- Unscrew and remove the battery compartment cover on the rear of the sensor.
- In the area marked "Zone Code" there are eight pairs of metal contacts with a number next to each.
- The number corresponding to the pair of contacts which is plugged with a jumper is the current zone.
- To re-assign to a different zone, simply unplug the jumper from its current zone and plug it across the contacts corresponding to the new zone number selected.

Jumper for Zone Code	<p>ZONE CODE 8 7 6 5 4 3 2 1</p>	Default zone code: Zone 8
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6. Maintenance

The product may be cleaned with a soft damp cloth and then wiped dry. Do not use abrasive, solvent based or aerosol cleaners as this may damage and/or discolour the product. Do not allow water to enter or attempt to clean inside the unit.

7. Batteries

Do not allow the batteries to corrode or leak as this may cause permanent damage to the

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