Wireless D.I.Y. Alarm Kit

User Manual

December 2010

Wireless DIY alarm kit

General

The Wireless DIY kit, is a pre-programmed, ready-to-use alarm system. Once the system is armed, via the remote control, the system will indicate which of the motion detectors have been triggered by a series of beeps. (see *"general operation"* section)

The system has an optional siren output should you wish to connect an external siren. This output will be activated if the panic button is pressed or a detector is triggered and the system is armed.

The motion detectors are equipped with a tamper and battery low, detection sensitivity adjustment and pet immunity (see *"advanced options"* for programming)

Please note that all detectors and remote controls must be on 433Mhz

Kit contents

Status LED
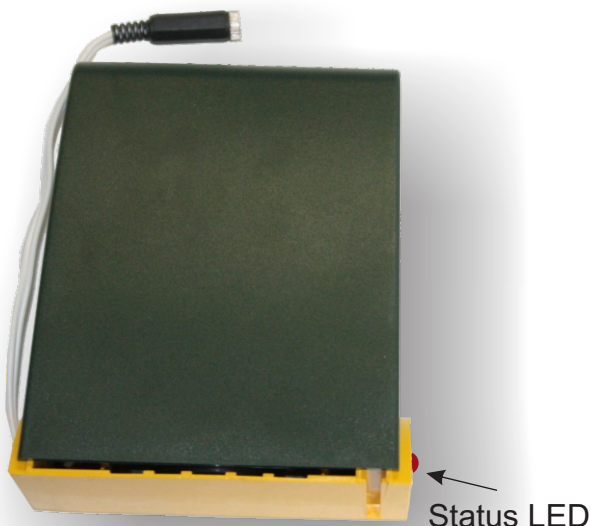
Control Unit (1)

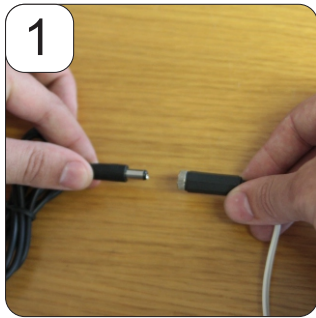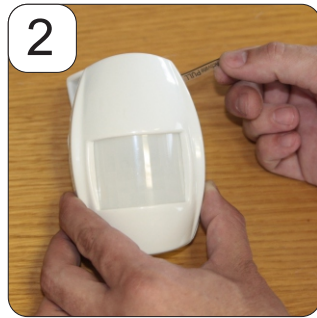Wireless Motion detectors (2)

Remote control (1)

Power Supply (1)

Doorguard (optional)

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Getting Started

1 connect power supply to mains power and apply power to control unit
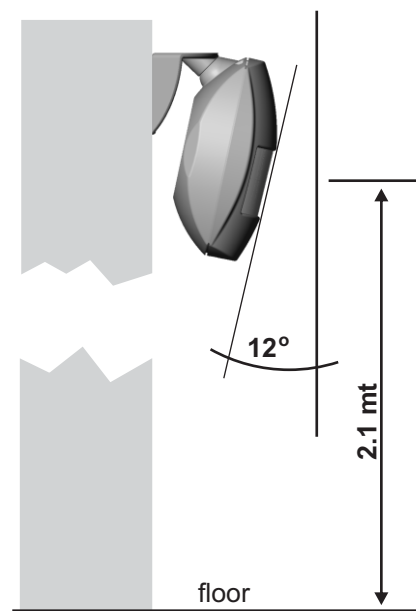

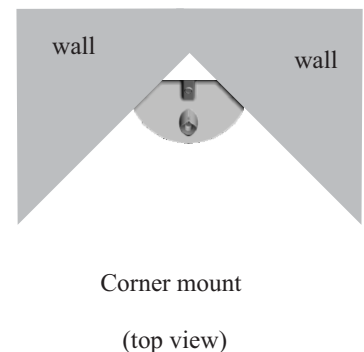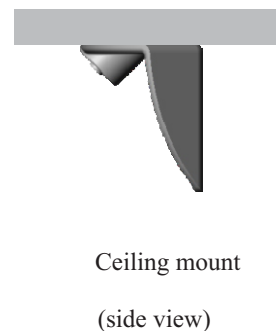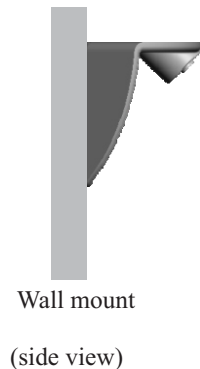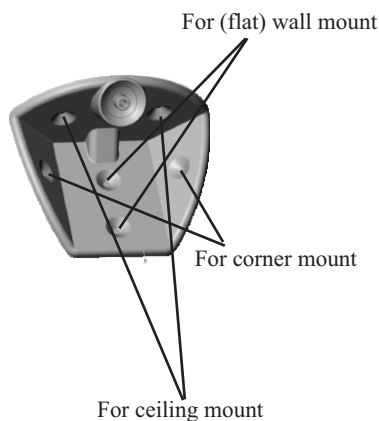**2** turn on the detectors by pulling the tag out

3 mount detector with mounting bracket (see below)

4 arm system by pressing the BLUE button

Mounting of detector

The detector and control unit have a range of up to 200m in open space, this will be reduced indoors depending on the material of obstructions such as walls, floors, doors etc.

For (flat) wall mount

For corner mount

For ceiling mount

Wall mount

(side view)

Ceiling mount

(side view)

wall

wall

Corner mount

(top view)

12°

2.1 mt

floor

Optimal mounting height and angle

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General operation

The remote control has 2 buttons, a red button and a blue button.

RED BUTTON (panic):
If you have a siren connected to the control unit, the RED button (panic button) will activate the siren for 3 minutes and sound the onboard buzzer (until disarmed - *see below*)

BLUE BUTTON (arm/disarm) :
The blue button is used to Arm and Disarm the system.
When the system is **armed**, 1 beep will be heard and the red LED light will turn on.
When the system is **disarmed**, 2 beeps will be heard and the red LED light will turn off.

ARMED:

If a detector is triggered and the system is in the armed state, the siren output will activate for 3 minutes and the onboard buzzer will indicate which detector was triggered as follows:

The buzzer will sound continuously for one long beep, followed by short beeps indicating which detector has been triggered (until disarmed)

Beep   Beep Beep Beep   Beep   Beep Beep Beep   . . .

Indicates detector 3 trigger

DISARMED:

Battery low indication
Each detector has a built-in battery low detection.
Triggering a detector that has a low battery will cause the onboard buzzer of the control unit to sound for one long beep. See the *"replacing batteries"* section for instructions how to replace batteries. See *"advanced options"* for disabling the battery low option.

Tamper
Each detector has a tamper switch to detect when the unit is opened.
See the *"advanced options"* section to enable this option.
If a tamper occurs, the onboard buzzer will continuously beep indicating which detector was tampered with. To silence the unit press the blue button on the remote control

Beep Beep   Beep Beep   . . .

Indicates detector 2 tamper
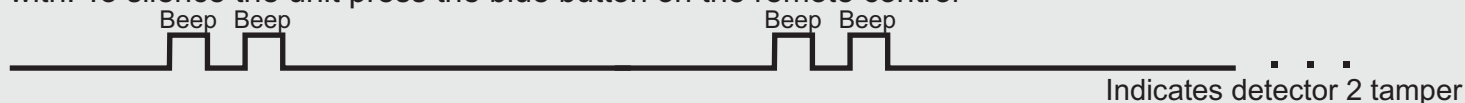
MULTIPLE DETECTORS

A total of 20 detectors per alarm sound may be added.

DEFAULTING THE SYSTEM

Short out the two round holes below detector button 3 on the control unit until the LEDs start to flash. This may be accomplished by using a pair of tweezers. This will remove all detectors and remote control stored on the unit.
ALL DETECTORS AND REMOTE CONTROLS WILL HAVE TO BE RE-LEARNED

Detector number buttons on control unit

detector 1   detector 2
detector 3   detector 4
RESET →   LED

PLEASE NOTE:
By default if the motion detector is triggered, it requires at least 3 minutes of no movement to re-trigger. This is done in order to get the maximum life span out of the batteries

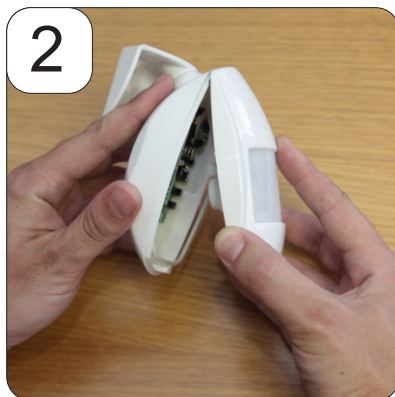M000062

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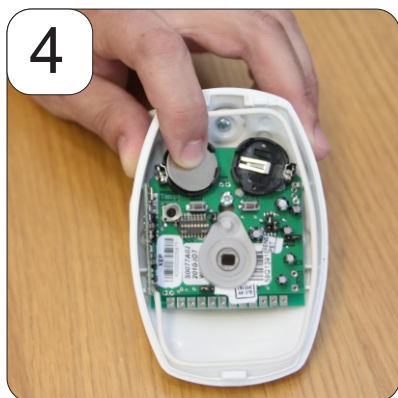
REPLACING BATTERIES

1
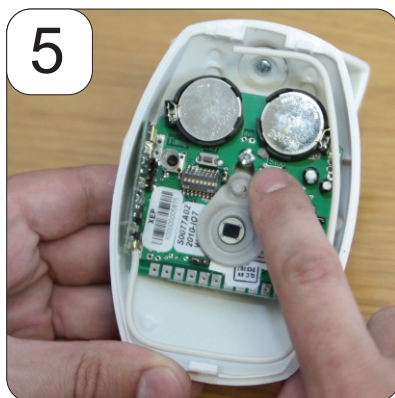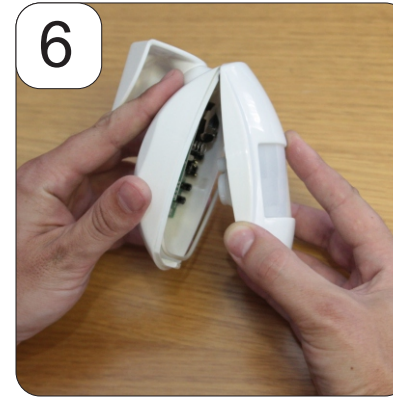
Loosen bottom screw

2

Open cover

3
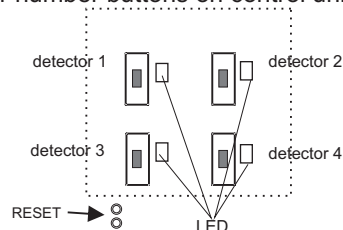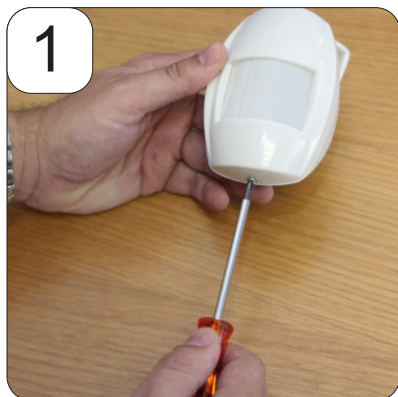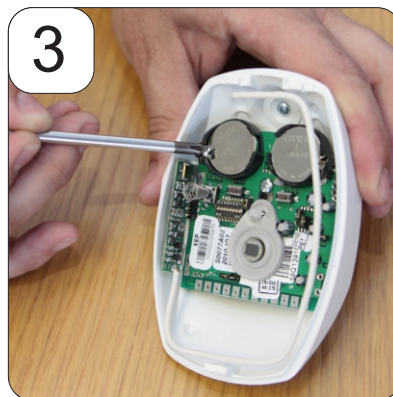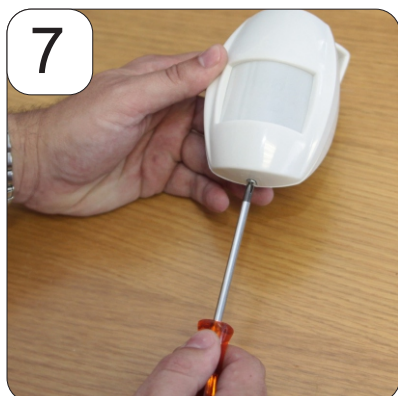
Unclip batteries pushing the battery clip outwards

4

Replace both batteries ensuring each is 'clicked' into place

5
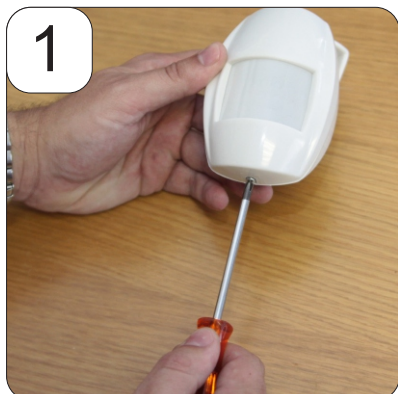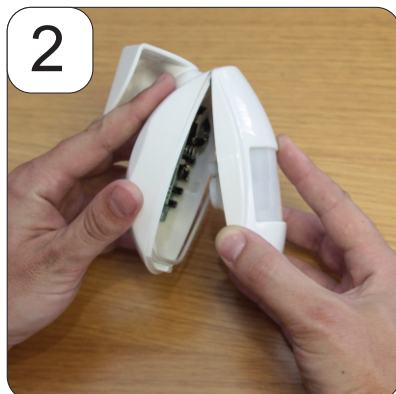
Press button to test. RED LED will illuminate
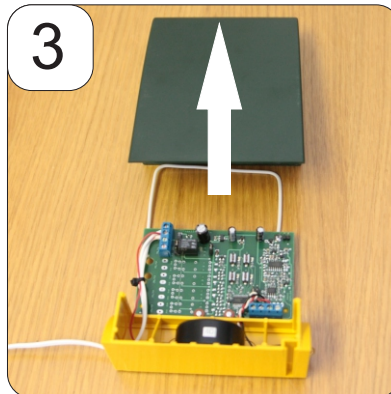
6

Close cover

7

Tighten bottom screw

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<u>Adding additional detectors</u>

1

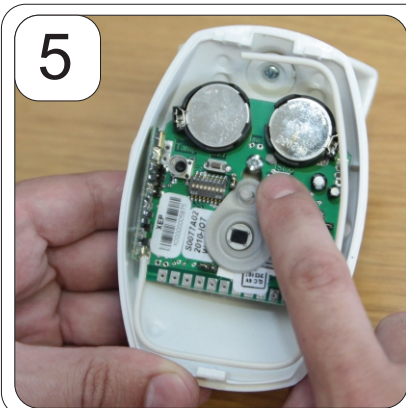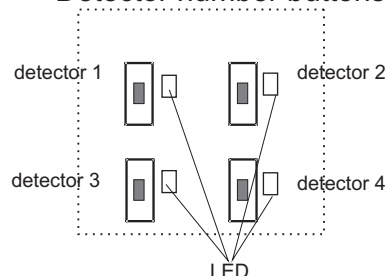Loosen bottom screw

2

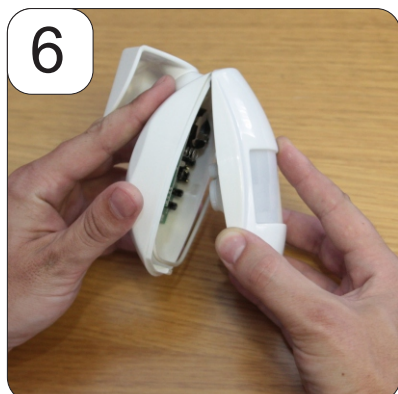Open detector cover

3

Open control unit cover

4

Hold down the associated detector number button on the control unit until the onboard LED lights up.

Detector number buttons

detector 1   detector 2

detector 3   detector 4

LED

5

Press button on detector to learn it to the control unit. Successfull learning is indicated by the LED on the control unit turning off and a single beep is heard.
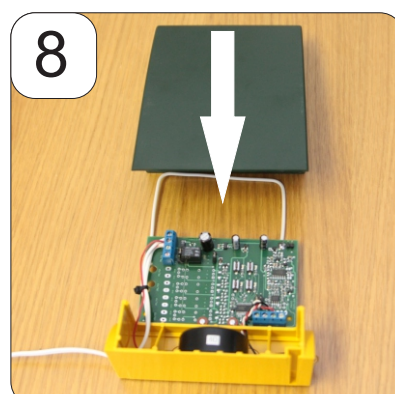
Ensure that bit number 4 of the dipswitch is set to ON.
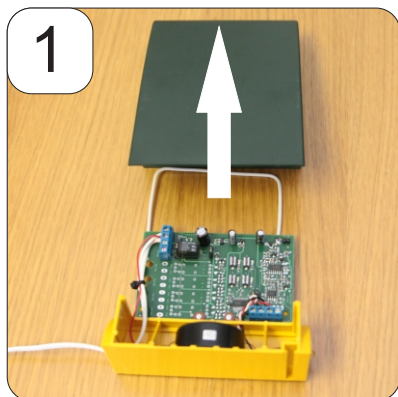
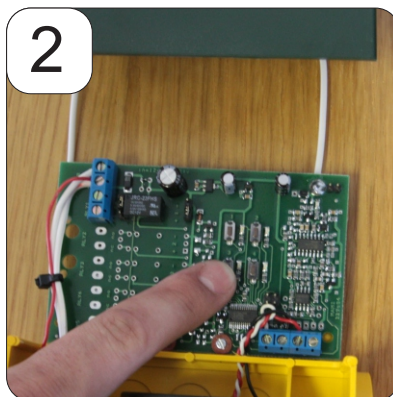**6**

Close detector cover

7

Tighten bottom screw

8

Close control unit cover

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Adding additional remotes
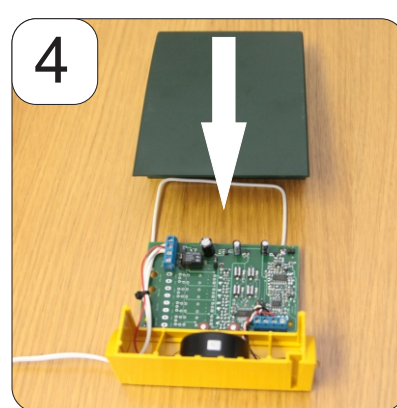

1 Open control unit cover

2 Hold down button 1 and button 2 until both LEDs turn on

3 Press blue button on remote control.

Successful learning is indicated by both LEDs on the control unit turning off and a single beep.

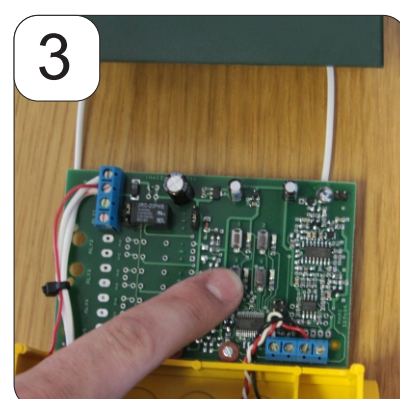**4** Close control unit cover

Adding wireless doorguards
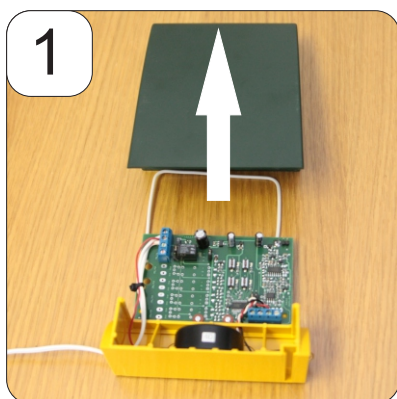
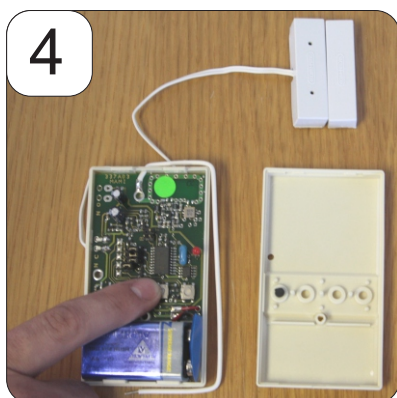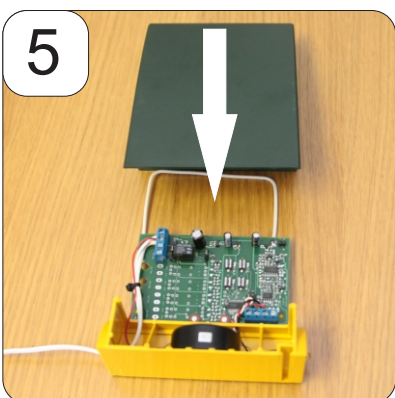

1 Open control unit
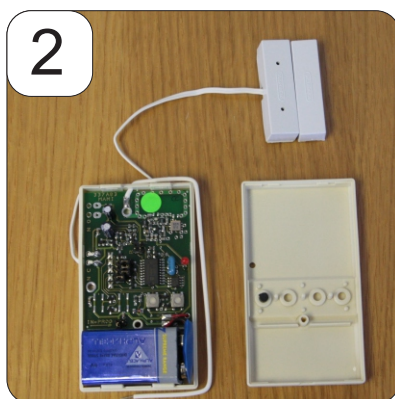
2 Open door guard

3 Hold down detector number button until LED on control unit illuminates

4 Press button 2. A beep will be heard on the control unit

5 Close Control unit and Doorguard

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ADVANCED OPTIONS

To set advanced options on motion detector it is required to open the detector. Follow steps 1 & 2 on the previous page to open the detector

Enabling/Disabling tamper detection

Enable: Dipswitch 8 UP
Disable: Dipswitch 8 DOWN

Enabling/Disabling battery low detection

Enable: Dipswitch 7 UP
Disable: Dipswitch 7 DOWN

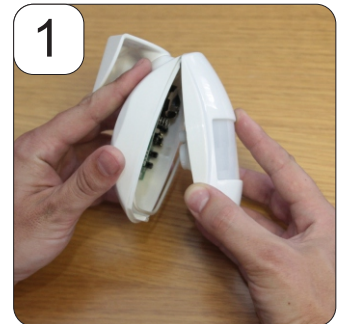### Changing sensitivity

High sensitivity: JP1 = IN
Low sensitivity: JP1 = OUT

Pet Immunity up to 15kg
Enable: JP2 = IN
Disable: JP2 = OUT

Loosen bottom screw

Open detector cover

Dip Switch

8 7 6 5 4 3 2 1

Jp1   Jp2
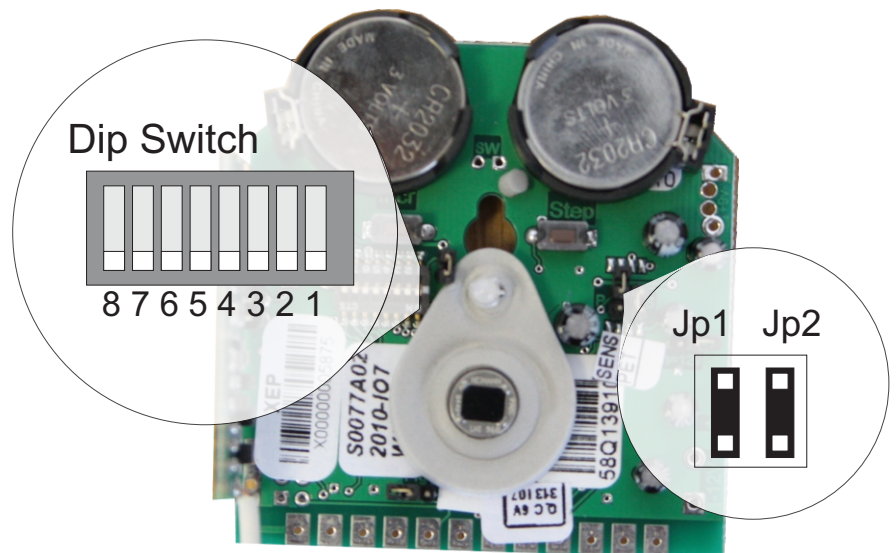
Adding a soundbomb to the control unit

A siren may be added to the system should it be required. The siren will activate for 3 minutes if either the panic is pressed or a detector is activated and the system was armed.

To do this requires to open the control unit and locate the power and soundbomb connector in the top left corner of the board.

Connect the soundbomb as indicated
(NB 1Amp Max)

Power in -
Power in + & SoundBomb +
SoundBomb -
n/a

red wire

black wire

External DC-Jack

RESET

SoundBomb

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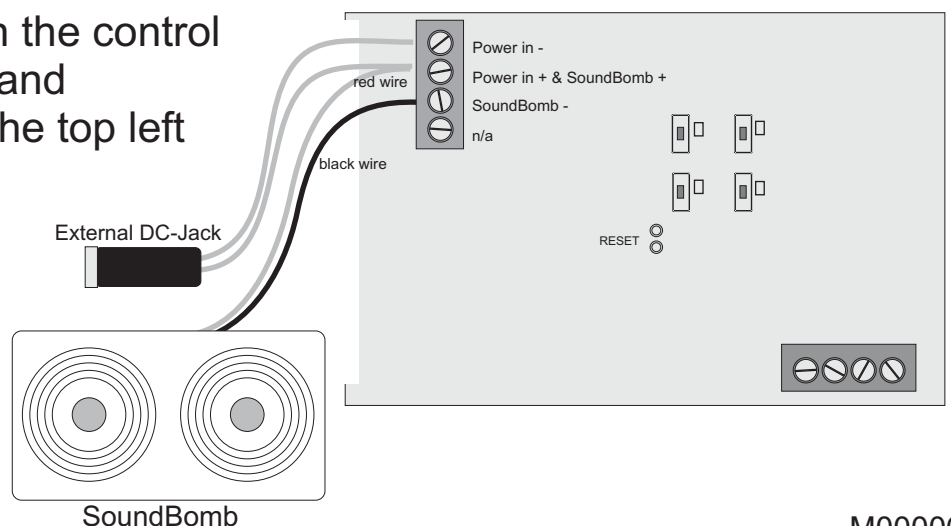
Motion detector lenses (optional)

Side view	Side view	Side view	Side view
12m	30m	12m	12m
Top view	Top view	Top view	Top view
standard	long range	vertical barrier	horizontal barrier

coverage area
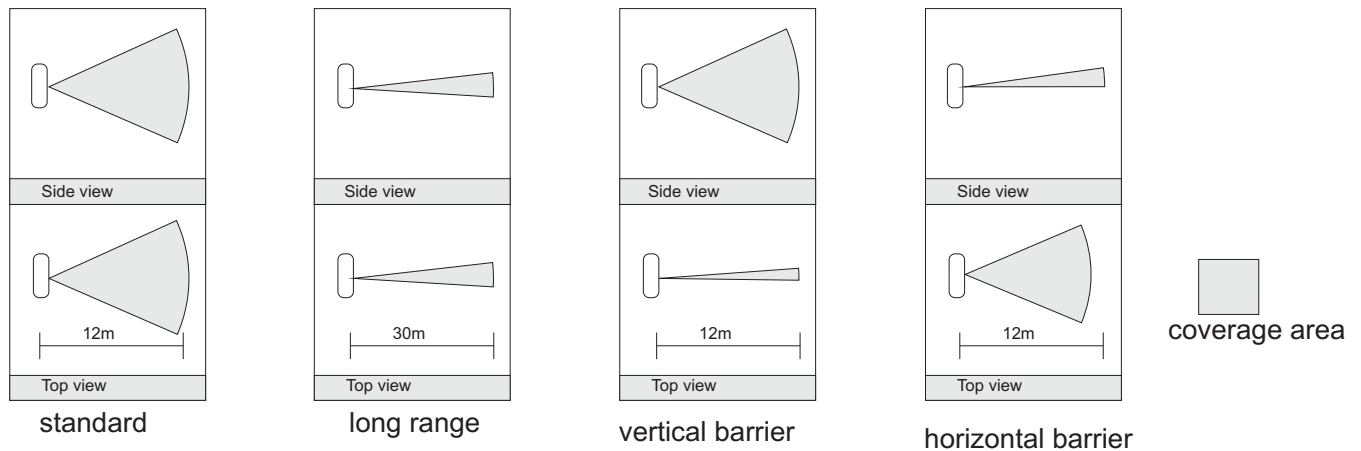
Technical specifications

	Control Unit	**Motion detector**	**Remote control**
Supply votlage	12V	6V or 9V	12V
Standby current	17mA	6uA	off
Transmitting current	n/a	20mA	20mA
Output relay rating	12V / 1A	n/a	n/a

Troubleshooting

Problem: The system does not arm or disarm, no beeps are heard, external LED does not change.
Solution: Make sure power is connected. To confirm this, the external LED will either solidly on
or flash fast every 2seconds.
Re-learn the remote control to the system (see page 7)

Problem: The system does not sound when a detector is triggered
Solution: Ensure that power is connected and the system is in the armed state (external LED is on)
Ensure that the unit has been learned into the control unit (page 6)
Ensure that the control unit and detector are less than 100m apart (This may be as low
as 20m depending on the material of the obstacles between them)

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