MK astral^{TM} Passive Infra Red Movement Detector

(Everspring SP103)

Safety:

Always follow the manufacturer's advice when using power tools, steps, ladders etc. and wear appropriate protective equipment such as safety goggles when drilling holes.

Before drilling holes in walls, check for hidden electricity cables and water pipes, and use a cable/pipe locater if in doubt.

Positioning the Detector:

The detector should be mounted on the wall or ceiling at a height of approximately 2m to give a detection range of between 6 and 12m.
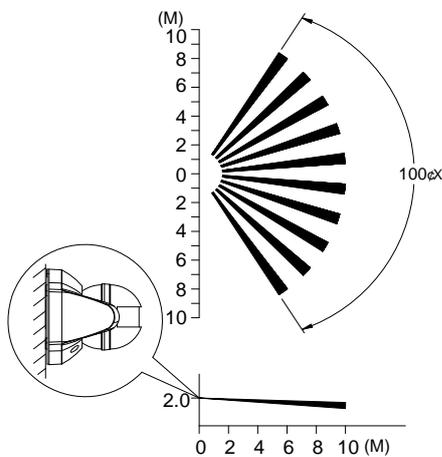
When selecting the best position consider the following points:

- Do position the detector so that the logical path of movement is across the detector rather than directly towards it.

- Do not position the detector facing a window or in direct sunlight or in draughty areas.

- Do not position the detector directly above or facing any source of heat, e.g. radiators etc

- Do not position outdoors or in damp wet locations

Installation

Install the PIR detector in the selected mounting position as follows…

1. Undo the two fixing screws and remove the back cover from the detector.

2. Using the back cover as a template, mark the positions of the fixing holes on the wall.

3. Fix the back cover to the wall using the screws and wall plugs supplied, (a 5mm hole will be required for the wall plugs).

   Note: The wall plugs supplied are not suitable for plasterboard walls, if mounting the Detector onto plasterboard use appropriate wall plugs.

4. Fit 3 x 1.5V AA Alkaline batteries observing correct battery polarity and wait 60s for the detector to stabilise and the LED to turn off.

   Do not fit rechargeable batteries or mix new and old batteries or batteries of different types.

5. Include the detector into your system and create associations to switches and dimmers before refitting the detector to the back cover on the wall, (see programming below).

   Note: The red LED will flash continuously until the device is included into a network.

Programming:
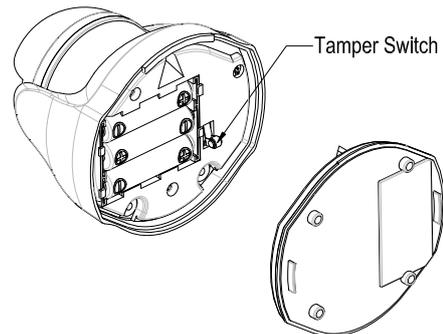
Tamper Switch

Note: The PIR Detector will stay "awake" for ten minutes after operating the tamper switch to allow time for programming.

Excluding and resetting the detector:

1) Place the system's primary controller into Exclusion mode.

2) Briefly press the TAMPER switch in the base of the PIR detector.

Include the detector into a Network:

1) Place the primary controller into Inclusion mode

2) Briefly press the TAMPER switch in the base of the PIR detector.

3) The *Inc* indicator on the primary controller will flash green 3 times if inclusion is successful.

Creating and Removing Associations:

To create or remove an association with the PIR Detector follow the normal Association or Disassociation processes.

At the correct time briefly press the TAMPER switch in the base of the PIR detector to identify it as the source device.

Note: The PIR Detector can be associated with a group of up to five switches or dimmers.

Operation and Testing:

Walk Testing:

With the product mounted in position on the wall and after the red LED has turned off …

1. Turn the time control fully anti-clockwise to set the minimum time on period of 5s

2. Walk through the detection area at various distances from the detector.

   Each time movement is detected the associated light will turn on for approximately 5 seconds.

   Stand still until the lamp turns off before moving again.

3. Continue the walk test and adjust the position of the detector head as necessary to cover the required area.

4. Remember to reset the time-on period to the required setting for normal operation.

Setting the time on period:

The time period can be adjusted between 5 seconds and 12 minutes by rotating the small control on the detector housing as follows.

    5 seconds   fully anti-clockwise

    12 minutes   fully clockwise

This sets the time that the associated lamp will remain on for after all movement has ceased within the detection area.

Normal Operation:

When movement is detected the associated lamp(s) will turn on.

The lamp will turn on for the set time-on period and then turn off. Any further movement detected within the set time-on period will keep the lamps on and reset the timer.

The lamp will only turn off if no movement id detected for the duration of the set time-on period.

Note: Associated switches and dimmers are tuned off under the control of the triggered PIR after set time period has elapsed. For this reason it is recommended only to have a single PIR detector controlling a group or switches/dimmers. If more than one PIR is controlling a switch/dimmer the lights will turn off when the first PIR time period expires, even if the 2nd timer is still running.

Changing the Batteries:

When the batteries are low the red LED behind the detector lens will illuminate red when movement is detected. When this occurs, remove the product from the wall and fit three new alkaline batteries.

Do not fit rechargeable batteries or mix new and old batteries or batteries of different types.

Troubleshooting:

Red LED flashes continuously
The detector has not yet been included into a network.

Red LED flashes after movement is detected
The batteries are low and need replacing.

Cannot include the device into a network
The detector is already part of another network. Reset the detector first using the exclusion process before trying again.

Cannot create associations
There are already too many switches and dimmers already associated to the device. You can only control 5 other switches or dimmers.

PIR Detector will not operate at all or control associated lights
Check that the detector batteries are not flat. Check that the power to the associated switch is on and that the lamps have not failed.

PIR Detector activates for no reason at random
Check suitability of location. Relocate the detector, change the head position or mask off the area of lens to avoid the interference.

Other Information:

Guarantee:
MK Electric undertakes to replace or repair at its discretion goods (excluding batteries) should they become defective within 18 months solely as a result of faulty materials and workmanship. Understandably if the product has not been installed, operated or maintained in accordance with the instructions, has not been used appropriately or if any attempt has been made to rectify, dismantle or alter the product in any way the guarantee will be invalidated.

The guarantee states MK Electric's entire liability. It does not extend to cover consequential loss or damage or installation costs arising from the defective product. This guarantee does not restrict, infringe or in any way affect the normal statutory or other rights of the consumer.

EU R&TTE Declaration:
MK Electric hereby declares that the European frequency PIR Detector product operating on 868.4MHz is in compliance with the essential requirements and other relevant provisions of the European Radio and Telecommunications Terminal Equipment (R&TTE) directive, 1999/5/EC. $C \in$

Maintenance and Disposal:
The product may be cleaned with a dry soft lint free cloth. Do not use water or any abrasive, solvent based or aerosol cleaners as this may damage, discolour or affect the finish of the product.

At the end of their useful life the packaging, product should be disposed of via a suitable recycling centre. Do not dispose of with your normal household waste. Do not burn.

Compatibility:
This product is tested and certified as Z-wave® compliant and is designed to work with other manufacturers Z-wave® compliant products.

Z-wave® products of other types and applications can be added to the system and will act as repeaters if they support this functionality. This enables the system to grow and expand to other application areas as your needs develop.

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Product Advice:
If you require advice on the MK astral™ system please contact your local technical service helpline on the phone number listed in you main MK astral™ manuals.