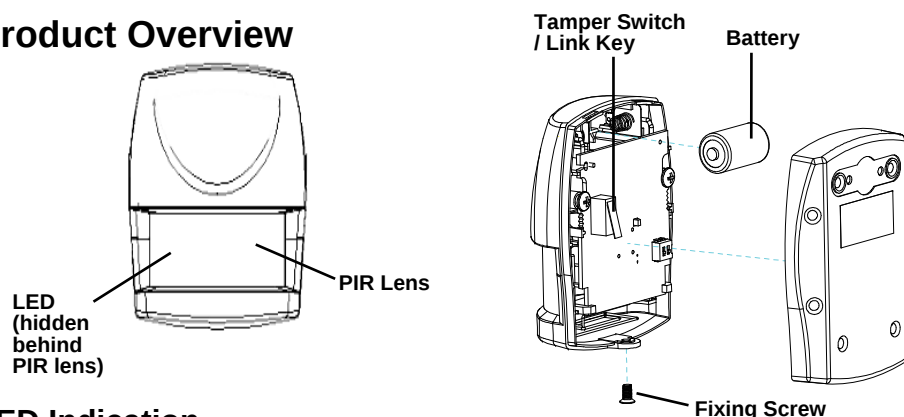


Installation Instructions

General Introduction

The HSP01 PIR Motion Detector is a U-Net device and is fully compatible with other U-Net devices. This Detector is designed with a Passive Infra-Red (PIR) sensor and light sensor in order to fulfill the purpose of security and home automation. It detects motion by monitoring changes in infra-red radiation levels emitted by body heat. Its great compatibility with our U-Net family security products makes it suitable for smart home cloud based platforms such as Homesys.

Product Overview

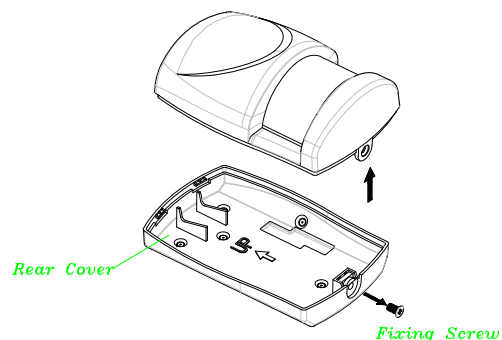


LED Indication

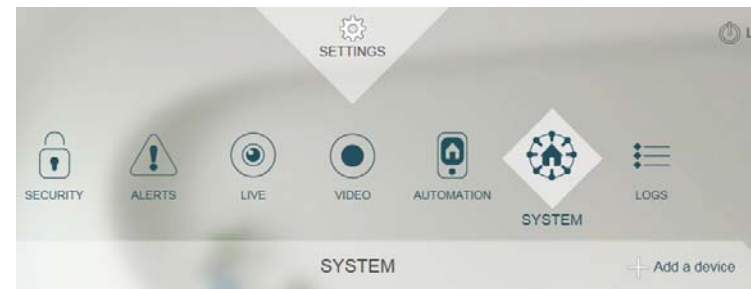
Red LED	Used to indicate trigger events, low battery power, and warm up
Green LED	Used to indicate key learning controls
Orange LED	Used to indicate no codes learned

Binding with Homesys

- Undo and remove the fixing screw from the bottom of the detector. Carefully pull the bottom of the detector away from the rear cover and then slide down to release the top clips.



- Prepare a CR123A battery. Do not insert the battery into the unit yet.
- Log into the Homesys account from a web browser.
- Select "System" then "Add a Device".



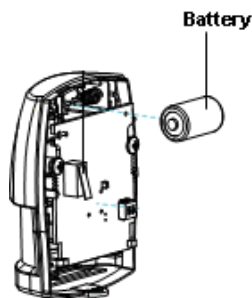
- Select "PIR Detector".



- The following screen will appear. This means the gateway is entering binding mode.



- At this point, insert the battery with correct polarity into the unit.



- The screen below will appear in 10 seconds if the process is successful.



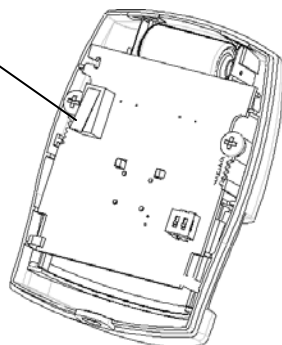
- Time-out will occur if the binding process was unsuccessful. Please refer to the "Manual binding" section.

Note: Leave the detector with the rear cover open to prepare for testing.

Manual Binding

- Repeat steps 3 to 6 of the Binding with Homesys section.
- With the battery inserted, press and hold the link key on the PCB for 3 or more seconds, and the detector LED will start to flash, implying that it has entered ID code learning mode.

Link key /
Tamper



- The LED indicator will stop flashing and turn off within 5 seconds, indicating the learning procedure is completed. The screen below will appear indicating the process is successful.



- If after 30 seconds the LED flashes rapidly (with an interval of 0.1 second) for 3 times, it means the PIR failed the binding process.

Operation & Testing

Warm-Up

It will take approximately 2 minutes to warm up the Detector after a battery is inserted. During this period the LED will flash red slowly. When the LED turns red for 5 seconds, it implies warm-up procedure is complete and the detector is ready for detection.

Testing

- Go to System, and set it to ARM.



- Wait for 30 secs then wave your hand in front of the detector.
- If the test is successful the system will trigger an alarm (alarms are listed in "Events").

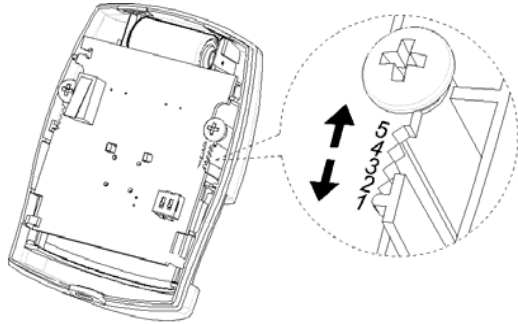
Note: It is necessary that the Homesys gateway is powered and connected to internet.

- If the test is unsuccessful, please check the troubleshooting section.

Mounting the HSP01

The PIR Detector is suitable for mounting in dry interior locations only.

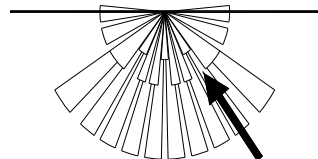
The recommended position for a PIR Detector is in the corner of a room mounted at a height between 1.8 and 2m. At this height, the detector will have a maximum range of up to 10m with a field of view of 110° and the position of the PCB set at 5. The position of the PCB inside the PIR can be set to 5 different positions to adjust the range of the detector. Setting the PCB in position 3 will reduce the range to approximately 6m, with position 1 providing a range of approximately 3m. The recommended position for the PCB is position 5.



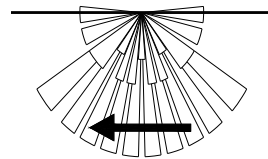
PCB Position	Range
1	3m
3	6m
5	9m

When considering and deciding upon the mounting position for the detector, the following points should be considered to ensure a trouble free operation:

1. Do not install the detector facing a window, exposed to or facing direct sunlight. PIR Detectors are not suitable for use in conservatories.
2. Do not install the detector exposed to ventilators or above a heat source (e.g. fire, radiators, boilers)
3. Where possible, mount the detector in the corner of the room so that the path of an intruder would cut across the fan detection pattern. PIR detectors respond more effectively to movement across the device than to movement directly towards it.



Less Sensitive



More Sensitive

5. Do not install the detector in a position where it is subject to excessive vibration.
6. Ensure that the position selected for the PIR Detector is within effective range of the system (please refer to the Troubleshooting section).

Note: When the system is armed, household pets should not be allowed into an area protected by a PIR Detector as their movement would trigger the PIR and generate an alarm.

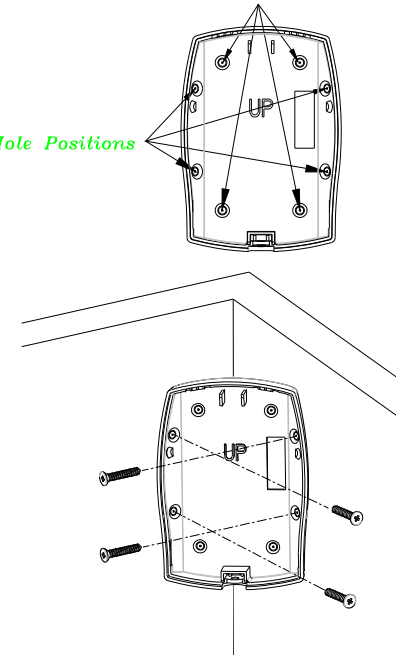
Installation

1. Using a 3mm drill, carefully drill out the required mounting holes in the rear cover according to whether the unit is being mounted in a corner or against a flat wall.

Note: Drill 1st mounting hole positions to fulfill corner mounting installation, and 2nd mounting hole positions for flat wall installation.

2nd
Mounting Hole Positions

1st
Mounting Hole Positions



Corner mounting

3. Using the rear cover as a template, mark the positions of the fixing holes on the wall.
4. Fix the rear cover to the wall using the two 18mm No.4 screws and 25mm wall plugs (a 5mm hole will be required for the wall plugs). Do not over-tighten the fixing screws as this may distort or damage the cover.
5. Check that the detector PCB is located and set in the correct position to provide the required detection range. To adjust the PCB position, simply slide it up or down ensuring that the location legs are aligned with the required position number marked on the board.
6. Refit the detector to the rear cover and locate the clips in the top edge into the rear cover. Push the lower edge of the detector into place and refit the fixing screw in the bottom edge of the detector to secure in position. Do not over-tighten the fixing screws as this may damage the casing.

- Perform the test using the same steps described in Operation & Testing section above to ensure the unit is working properly. By walking into the protected area with coverage of 110 degrees, the detector will now be triggered each time it senses movement. Note that the detector can only be triggered once every 30 seconds when mounted on the wall.

Maintenance

Low Battery: When the battery becomes low, the LED will flash red when motion is detected to indicate low battery condition to the user.

Troubleshooting

The troubleshooting table lists some possible causes and solutions. Please contact your original retailer or nearest service center if the below solutions cannot solve your problem.

Symptom	Cause of Failure	Recommendation
LED cannot be displayed	- Run out of battery power. - Check if reverse battery polarity.	- Replace a new battery. - Refit the battery with correct polarity.
The detector is not working	- The PIR detector cannot communicate with the gateway HSC04. - Check if the detector is out of order.	- Place the PIR Detector closer to the gateway. - Send the device in for repair and do not open it.
After the two-minute warm up is completed, the detector does not work and LED flashes on and off repeatedly at with an interval of 2 seconds	Check if detector has completed binding with Homesys Gateway	Remove the battery and follow the steps for "Manual binding".

Reset to Factory Settings

- Press and hold the link key on the PCB for 3 or more seconds, and the detector LED will start to flash.
- Press and hold the link key for 6 or more seconds within 30 seconds until the LED turns off. The device is now reset back to factory mode

Specifications

Battery	CR123A 3.0V 1700mAh Lithium Battery
Operating Temperature	-10°C to 40°C
Warm Up Time	About 2 minutes
PIR Detection Coverage	Wall-Mounted: Up to 10m x 110° (at 1.8m mounting height & 25°C)
Operating Frequency	868MHz (EU)/ 923MHz (America)

** Specifications are subject to change without notice.



WARNING:

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities instead. Please contact your local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposal at least for free of charge.

Federal Communication Commission Interference Statement

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 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.

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



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