

[Motion Sensor](#)[PIR Sensor](#)[Specification](#)

# PIR Sensor

[Download Spec](#)

The passive infrared sensor detects motion by detecting changes in infrared (IR) levels caused by the presence of humans within its range.



## 1. Detection Performance

### Detection method

- Passive infrared sensor

### Motion detection distance

- Up to **12 m**

### Detection angle

- Horizontal: **110°**

*Recommended installation height: 1.8m to 2.4m*

## 2. Features

### Pet Immunity

- $\leq 10$  kg

### White Light Filter

- 2000 lux

### Tamper Protection

- Rear

### Remote setting and testing

- Setting and testing from RB Link App

### Advanced features

- Power up enrolling *When sensor is powered up, it will automatically start paring to the hub nearby*
- Find me *When enabled, the sensor starts flashing green, which can help identify the sensor from numerous devices.*
- Signal strength detection *When enabled, senor starts flashing green/orange/red showing the wireless signal strength between the hub at current installation site.*
- Low battery notification

### Indicator

- Alarm: Flashing Red
- Find me: Flashing Green
- Signal strength: Flashing Green / Orange / Red *Flashing Green: signal strength is strong, and is recommended to install device hereFlashing Orange: signal strength is medium and device can be installed hereFlashing Red: signal strength is bad or no signal, and device can not be installed here*

## 3. RBF wireless technology

### Wireless signal range

- Up to **3,100 m** in an open space with hub
- Two-way communication with hub

### Frequency bands

- **RBSS-PS1-915**: 902 ~ 928 MHz *Depends on sales region.*

### Wireless signal modulation

- FSK / DSSS

### Encrypted communication

- All the data transmitted are protected by AES-CCM encryption with a random key.

### Frequency hopping (FHSS)

- To prevent radio interference and radio signal interception.

### Time division multiple access (TDMA)

- With the help of clock synchronization technology, hub will slice time into different division for different RBF wireless devices. In this way, all devices will communicate with hub in a sequence.

## 4. Electrical Characteristics

### Power Supply

- CR123A × 1
- Up to 5 years (standby mode)

## 5. General

### Operation Temperature

- From -10°C to +55°C (14°F to 131°F)

### Operation Humidity

- From 10% to 90%

### Storage Temperature

- From -20°C to 60°C (-4°F to 140°F)

### Dimension(WxHxD)

- 114.7mm × 61.2mm × 43.8mm

### Weight

- 111 g

## 6. Compatibility

- Operates with all RoomBanker Home Security Hubs, RBF repeaters.

## 7. Complete set

Product	Quantity
PIR Sensor	× 1
Wall-mounting bracket	× 1

Product	Quantity
3M adhesive	× 1
Quick Start Guide	× 1

## 8. Additional information

### Available models

- RBSS-PS1-868
- RBSS-PS1-915

### Certifications

- CE, CB
- FCC
- ICASA
- RCM
- NOM
- Anatel

### User Manual

- [Roombanker User Manual](#)

### Warranty

- Replacement and repair within 24 months of the date of sale. Batteries are not covered under warranty.

**FCC Statement**

1. 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.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications 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.

To comply with RF exposure requirements, a minimum separation distance of 20 cm must be maintained between the user's body and the device, including the antenna.