

OCCUPANCY SENSING MEANS ENERGY SAVINGS

Guestrooms know when to dial in comfort or savings automatically, with Honeywell

Honeywell INNCOM Motion Sensors



Honeywell

ENERGY SAVING INTELLIGENCE

Honeywell INNCOM motion sensors use passive infrared (PIR) motion detection to inform the integrated room automation system (IRAS) when someone is in the room, enabling the system to automatically switch from energy savings to comfort settings.

HOW IT WORKS

INNCOM motion sensors are available for wall or ceiling mounting, and communicate wirelessly via radio frequency (RF) to help determine guestroom occupancy. They work in coordination with a door sensor and an INNCOM thermostat, which acts as the hub, providing a communication network and room control.

When the motion sensor detects activity in the room, it reports this to the thermostat. Combined with a door sensor – integrated with the door lock or as a contact switch – this gives you a standalone energy management system (EMS) that can identify an empty room within just 10 minutes.

WHY IT MATTERS

This precise occupancy logic enables guestrooms to automate systems such as lighting and HVAC, giving guests a more comforting experience while using energy more efficiently. This in turn optimizes the service life of HVAC and lighting devices.

Occupancy can also be communicated to hotel staff via a discreet indicator in the hallway to preserve guest privacy.

In short, when your guestrooms can accurately determine occupancy, hotel operations can run smoother – for both guests and budgets.



Energy Savings on Guestroom HVAC

Networked EMS	25–40%	Property-wide Hospitality IoT with PMS integration	   
Integrated Room Automation System	20–30%	Hospitality IoT in the Guestroom	  
Standalone EMS	20–30%	Motion Detection + Door Sensor	 
	15–25%	Motion Detection Only	
Traditional Thermostat	0%		

INNCOM K594.RF

Battery-powered motion sensor

The INNCOM K594.RF passive infrared (PIR) motion detector is wall-mountable and fully wireless, using battery power and RF communication, which makes it easy to mount wherever is most effective within the room.

It uses a combination of Fresnel and cylindrical lenses for high sensitivity from 1.64–40 ft (0.5–12 m), and an advanced motion-detection algorithm that distinguishes true occupant motion from false readings.



SPECIFICATIONS

- Dimensions: 3.5 in H x 3.5 in W x 2.5 in D (88.9 mm H x 88.9 mm W x 63.5 mm D)
- RF data rate: 250kbps
- Antenna type: SMT
- Indoor range: 70 ft (21.3 m)
- Transmit power: 1mW (+0dBm)
- Receive sensitivity: -94.6dBm
- Frequency band: 2.4Ghz
- Encryption: AES-128
- Protocol: 802.15.4
- Frequency channels: 11-26
- Parameter: S541.RF
- Input voltage: 9 to 16 VDC
- Current drain: Max. 9 mA @ 12 VDC
- FCC part 15b listed
- For indoor use only

FEATURES



Sensitivity adjustment



Wide angle dispersion



Easy installation



Battery powered (4AAA)



2.4Ghz IEEE 802.15.4 compliant



RF transceiver (CC2430 radio core)

INNCOM K595.RF

Battery-powered motion sensor

Like the K594.RF, the INNCOM K595.RF passive infrared (PIR) motion detector is wall-mountable and wireless, using battery power and RF communication for easy installation anywhere in the room. The K595.RF also adds a magnetic-mounting design for even faster installation and battery replacements.

It uses a combination of Fresnel and cylindrical lenses for high sensitivity from 1.64–40 ft (0.5–12 m), and an advanced motion-detection algorithm that distinguishes true occupant motion from false readings.

The K595 is also available without PIR for use as an RF door-switch monitor.



SPECIFICATIONS

- Model number: K595.RF
- Dimensions:
4.7 in H x 2.9 in W x 0.29 in D
(119 mm H x 74 mm W x 7.40 mm D)
- Mounts in a single US or British size gang box
- IRF data rate: 250kbps
- Antenna type: SMT
- Indoor range: 70 ft (21.3 m)
- Transmit power: 1mW (+0dBm)
- Receive sensitivity: -94.6dBm
- Frequency band: 2.4Ghz
- Encryption: AES-128
- Protocol: 802.15.4
- Frequency Channels: 11-26
- FCC and CE Mark
- For indoor use only

FEATURES



Sensitivity adjustment



Wide angle dispersion



Easy to install magnetic mounting design



Battery powered (4AAA)



2.4Ghz IEEE 802.15.4 compliant



RF transceiver
(CC2430 radio core)

INNCOM K594

Motion sensor

INNCOM K594 passive infrared (PIR) motion detectors are available in two models: wall-mounted (K594W) or flush ceiling-mounted (K594C).

Each model uses a pair of Fresnel lenses to detect motion, and connects via low-voltage wiring with flexible options for mounting.

SPECIFICATIONS

- Model number:
 - K594C (ceiling mount)
 - K594W (wall mount)
- Dimensions:
 - Ceiling: 3.35 in W x 0.98 in D (85 mm W x 25 mm D)
 - Wall: 4.2 in H x 2.4 in W x 1.7 in D (105 mm H x 61 mm W x 44 mm D)
- Current drain: Max. 10 mA @ 12 VDC
- Input voltage: 9 to 15 VDC
- Tamper - Normally-closed (NC) contacts (with cover on) rated for ≤ 100 mA, 25 VDC, 2.5 W
- Operating temperature: 32° F to 120° F (0° C to 49° C)
- For indoor use only

FEATURES



Sensitivity adjustment



Wide angle dispersion



Easy installation



Maintenance free



Increased energy savings



Extended HVAC equipment life





For more information

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FUTURE
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WE
MAKE IT**

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