

## Battery Powered Motion Sensor - K594.RF



- Improves energy management and security
- Extends heating, ventilation, and air conditioning equipment life
- Enhances operating efficiency
- Improves guest satisfaction
- Available as a wall or ceiling mounted device

INNCOM  
by Honeywell

# Advanced sensitivity... Superb area coverage and dependability

## DESCRIPTION

The K594.RF passive infrared (PIR) motion detector adds occupancy sensing capability to INNCOM integrated guestroom control systems. Its radio frequency (RF) capability allows participation in an INNCOM Integrated Room Automation System (IRAS) Layer-1 network.

Available as either a wall or ceiling mount, the K594.RF, in conjunction with a door contact device, a room controller, and a communication network, helps determine guestroom occupancy. Occupancy sensing leads to better management of energy usage and security; extends heating, ventilation, and air conditioning equipment life; enhances the overall operating efficiency of the hotel; and improves guest satisfaction.

There are two models of the K594.RF: the K594.RFW and the K594.RFC, for wall or ceiling mounting, respectively. Both meet INNCOM system requirements for sensitivity, area coverage, appearance and dependability.

## APPLICATION

The K594.RF is a microprocessor-controlled PIR detector designed for easy installation. It features a combination of Fresnel and cylindrical lens elements with high-detection sensitivity



beginning at 0.5 meter (1.64 ft.) away from the detector up to a distance of 12 meters (40 ft.). The patented advanced True Motion Recognition™ algorithm allows the K594.RF to distinguish between the true motion of an occupant and other disturbances that might provoke false readings.

The K594.RF detects motion in a guestroom and reports it to the room controller. Combined with information from other inputs (such as an entry door switch or an electronic door lock), guestroom occupancy can be determined and used for energy control or lighting decisions. Occupancy information may also be signaled to Housekeeping using the corridor doorbell display or a floor-level terminal. It also provides an audit trail for Security and be networked to the hotel's central server.

## OPERATION

Location of the K594 is determined by the individual guestroom design. Ideally, the unit is positioned to view both the entry door and the bed areas of the guestroom. The K594.RF should be mounted unobtrusively within operational range (70 ft. indoors) of the e4 thermostat and any other devices it may communicate with. Care should be taken to avoid possible sources of radio interference such as metallic boxes, WiFi access points, water pipes, and the like.

### Features

- Sensitivity adjustment
- Wide angle dispersion
- Easy installation
- Battery Powered
- 2.4Ghz IEEE 802.15.4 compliant
- RF transceiver (CC2430 radio core)

### Specifications

- Model number: K594.RF
- Dimensions: 3.5"W x 3.5"H x 2.5" D  
(88.9mm W x 88.9mm H x 63.5mm D)
- Powered by 4 AA Batteries

- RF Data Rate: 250kbps
- Antenna Type: SMT
- Indoor Range: 70ft
- Outdoor/ RF line-of-sight range: 540ft
- 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
- FCC Part 15b listed

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