



Wireless Infrared Motion Sensor

Technical Overview

General Description

The OEM RF Wireless motion sensor uses an infrared sensor to accurately detect movements made by people/ animals within 16.4 ft (5 m) range.

Features

- Detects motion by infrared motion sensing.

Principle of Operation

The OEM Wireless Infrared Motion Sensor detects motion and movement using infrared technology. When the sensor detects movement it communicates with the sensor monitoring software. All data is stored in the software where the data can be reviewed and exported as a data sheet or graph. Notifications can be set up to alert the user when motion has been detected.

OEM Sensor Core Specifications

- Power: 3.0 V coin cell battery
- Communication: RF 900, 868 and 433 MHz
- Antenna: 4" wire antenna
- Operating Temperature: -40° to 85°C (-40° to 185°F)
- Device Range: 250 - 300 ft. non-line-of-sight*
- Only 1 inch by 1 inch

* Actual range may vary depending on environment.

Applications

- Monitor area access.
- Detect when people enter a room.

Specifications

Supply Voltage	2.0 - 3.6 VDC *
Current Consumption	0.7 µA (sleep mode) 2 mA (radio idle/off mode) 2 mA (measurement mode) 25 mA (radio RX mode) 35 mA (radio TX mode)
Electronics Operating Temperature Range	-40°C to +85°C (-40°F to +185°F) **
Available Operating Frequencies	900 MHz (25 Channels), 868 MHz (5 Channels) and 433 MHz (15 Channels)
Sensor Detection Range	16.4 ft (5 m)
Reted Consumption Current (Standby)	Typ: 170 µA Max: 300 µA
Sensor Warmup Time	30 Seconds
Certifications	 900 MHz product; FCC ID: ZTL- RFSC1 and IC: 9794A-RFSC1. 868 and 433 MHz product tested and found to comply with: CISPR 22:2008-09 / EN 55022:2010 - Class B and ETSI EN 300 220-2 V2.4.1 (2012-05).

- * Hardware can not withstand negative voltage. Please take care when connecting a power device.
** At temperatures above 100°C, it is possible to lose programmed memory.

For more product information, to get a quote, or to place an order, please contact our sales department at 801-561-5555. Visit us on the web at www.oemsensors.com.

