



Wireless Seat Occupancy Sensor



Technical Overview

General Description

The OEM RF Wireless Seat Occupancy Sensor detects when someone is sitting in a seat.

Features

- Senses presence of pressure applied to pad.
- Bend Sensor / Potentiometer.

Principle of Operation

The OEM Wireless Seat Occupancy Sensor uses a stress plate with an integrated flexible, stress sensitive ribbon to accurately measure when (force) is applied to the plate. Perfect for monitoring seats for occupancy. The data is stored in the software and can be reviewed and exported as a data sheet or graph. Notifications can be set up to alert the user when a set threshold has been met or exceeded.

OEM Sensor Core Specifications


- Power: 3.0 V coin cell battery
- Communication: RF 900, 868 and 433 MHz
- Antenna: 4" wire antenna
- Operating Temperature: -20° to 60°C (-4° to 140°F)
- Device Range: 250 - 300 ft. non-line-of-sight*
- Only 1 inch by 1 inch
- Pressure pad with 3 ft. wires

* Actual range may vary depending on environment.

Applications

- Movie Theater Seat Monitoring.
- Stadium Seat Monitoring.
- Heavy Equipment Operator Seats.
- General Seat Monitoring.

Specifications

Supply Voltage	2.0 - 3.6 VDC *
Current Consumption	0.7 μ A (sleep mode) 2 mA (radio idle/off mode) 2 mA (measurement mode) 25 mA (radio RX mode) 35 mA (radio TX mode)
Operating Temperature Range	-20°C to +60°C (-4°F to +140°F) **
Base Resistance	100 Ω - 500 K Ω
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.

 **Warning: Do not kink or damage the flexible ribbon!**



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.

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