



Tarts Wireless Motion Sensor

General Description

Tarts wireless motion sensor uses an infrared sensor to accurately detect movements made by people/animals within 16.4 ft (5 m) range.

Features

- Passive Infrared Technology.
- Sensing Range of 16.4 ft (5 m).

Principle of Operation

The Tarts wireless motion sensor detects motion and movement using infrared technology. When the sensor detects movement it sends the information wirelessly to the gateway (Arduino shield, Raspberry Pi plate or BeagleBone Black cape).

Technical Specifications

Datum Definition	Type: 23 Name: PIR RawValue: 0 (No Motion), 1 (Motion) FormattedValue: NO MOTION (0), MOTION (1)
Supply Voltage	2.0 - 3.6 VDC * (ships with CR2032 - 3.0 V coin cell battery and battery clip)
Current Consumption	170 μ A (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 μ A Max: 300 μ A
Sensor Warmup Time	30 Seconds
Antenna	4" wire antenna
Device Range	250 - 300 ft. non-line-of-sight (actual range may vary depending on environment.)
Dimensions	1 inch (W) x 1 inch (L)
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 cannot 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 or to place an order visit us on the web at www.tartssensors.com.

email: info@tartssensors.com
 web: www.tartssensors.com

