



Tarts Wireless Open / Closed Sensor

General Description

Tarts wireless open / closed sensor can be used to detect when a door or window is opened and closed using a magnetic switch.


Features

- Magnetic sensor.
- Immediately sense if a door, window or drawer is opened or has been left open.

Principle of Operation

The Tarts wireless open / closed sensor uses a magnetic switch sensor to detect the presence or removal of a magnetic source. When the sensor detects that the magnet is removed or returned it sends the information wirelessly to the gateway (Arduino shield, Raspberry Pi plate or BeagleBone Black cape).

Technical Specifications

| | |
|---|---|
| Datum Definition | Type: 9 Name: CONTACT RawValue: 0 (CLOSE), 1 (OPEN) FormattedValue: CLOSE (0), OPEN (1) |
| Supply Voltage | 2.0 - 3.6 VDC * (ships with CR2032 - 3.0 V coin cell battery and battery clip) |
| 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) |
| 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) |
| Operation Time / Release Time | 0.5 ms (max) / 0.1 ms (max) |
| Shock | 11ms ½ sine wave / 100 g (max) |
| Vibration | 50 - 2000 Hertz / 30 g (max) |
| Resonant Frequency | 8500 Hz (typ) |
| Pull-In Range | 10 - 25 Ampere Turns |
| Rating Sensitivity | 15 Ampere Turns |
| 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.

Tarts Sensors | email: info@tartssensors.com | web: www.tartssensors.com