



Tarts Wireless Dry Contact Sensor

General Description

Tarts wireless dry contact sensor can be used to detect contact between two wired contact points, an external mechanical switch or a contact plate.


Features

- 3 ft. lead wires.
- Senses immediate contact between wires.
- Can also sense when contact is broken.

Principle of Operation

The Tarts wireless dry contact sensor detects when an open or closed loop between the two wired end points. It can easily be integrated into existing switches or contact plates. When the sensor detects an open or closed loop between the two end points, it will immediately turn on the RF radio and transmit the data to the wireless gateway (Arduino shield, Raspberry Pi plate or BeagleBone Black cape).

Technical Specifications

Datum Definition	Type: 3 Name: CONTACT RawValue: 0 (Open), 1 (Close) FormattedValue: OPEN (0), CLOSE (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)
Lead Wire Length	3 ft. (36 in.)
Detection Wires	High Impedance
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.

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