TARTS™
Sensors for Makers™

CONTROL

Tarts Wireless Basic Control

General Description

Tarts wireless control allows a user to control a single 40V, 30 mA transitor switch.

Features

- Single 30 mA transistor switch.
- Single LED indicator.

Principle of Operation

The Tarts wireless control unit has a single 40V, 30 mA NPN transistor switch that can be toggled on/off wirelessly by the sensor gateway (Arduino shield, Raspberry Pi plate or BeagleBone Black cape). An LED indicator lets the user know if the switch is closed. For further instructions on using this sensor and applications requiring current greater than 30 mA see the basic control user guide.

Tarts Wireless Control Unit Specifications	
Control Unit Relays	**10-Amp Units**
Datum Definition	Type: 70 Name: RESISTANCE RawValue: 234125 FormattedValue: 23412.5 OHMS
Supply Voltage	2.0 - 3.6 VDC * (ships with CR2032 - 3.0 V coin cell battery and battery clip)
Current Consumption	0.7 µA (sleep mode) with switch and LED off 300 µA (sleep mode) with switch on 15 mA (sleep mode) with switch and LED on 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)
Transistor Switch (NPN)	MMBT3904
Max Collector-Emitter Voltage	40 VDC
Max Transistor Switching Current	30 mA
Transistor Switching Time	200 ns
Lead Wire Length	1 ft. (12 in.)
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:	FC CE Industry Canada 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).

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