

Sensor Kit

Variety of sensors and Qwiic Connect boards for rapid prototyping

Product Overview

12-14-2021

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

SparkFun Sensor Kit includes a sensor for sensing gesture, humidity, temperature, motion, touch, sound, altitude, and acceleration. The Sensor Kit also offers several sensor boards for rapid prototyping. This Sensor Kit is part of the Sparkfun Qwiic Connect System is an ecosystem of I²C sensors, actuators, shields, and cables that make prototyping faster and less prone to error. All Qwiic-enabled boards use a common 1mm pitch, 4-pin JST connector.

Kit Overview



Kit Contents

- **Large Piezo Vibration Sensor With Mass** - A flexible film able to sense for vibration, touch, and shock, with a voltage of up to ± 90
- **Reed Switch** - Senses magnetic fields, or a great non-contact switch
- **0.25" Magnet Square** - Compatible with the reed switch, creates a hidden actuator to the reed switch
- **0.5" Force Sensitive Resistor** - A force-sensing resistor with a 0.5" diameter sensing area ideal for sensing pressure
- **PIR Motion Sensor** - Easy-to-use motion detector with an analog interface, when powered with 5-12VDC any movement will be alerted
- **Mini Photocell** - The photocell will vary its resistance based on light exposure, varies from 1k Ω in the light to 10k Ω in the dark
- **QRD1114 Optical Detector/Phototransistor** - An all-in-one infrared emitter and detector, ideal for sensing black-to-white transitions or detecting nearby objects
- **SparkFun Environmental Combo Breakout - CCS811/BME280 (Qwiic)** - Provides barometric pressure, humidity, temperature, TVOCs, and equivalent CO₂ (or eCO₂) levels with an I²C output
- **Flex Sensor** - For sensing motion or positioning, when the sensor is flexed, the resistance across the sensor increases
- **SoftPot** - Very thin variable potentiometers that vary the resistance by pressing on various positions along the strip
- **RGB and Gesture Sensor - APDS-9960** - The board can measure ambient light or color, as well as to detect proximity and do gesture sensing using I²C
- **SparkFun 9DoF IMU Breakout - ICM-20948 (Qwiic)** - The chip provides a 3-axis accelerometer, 3-axis gyroscope, and 3-axis magnetometer, the board can be connected over I²C, Qwiic, or SPI and all three sensors can determine a 3D orientation
- **Soil Moisture Sensor (with screw terminals)** - Outputs an analog signal based on the resistance of the soil, the soil water content will be reflected in the soil resistance
- **SparkFun Capacitive Touch Slider - CAP1203 (Qwiic)** - The small board acts great as a non-mechanical button, this is achieved using the three pads on the board or connection input for a touch button or slider with no moving parts
- **Sound Detector** - The board will output amplitude and a full audio signal
- **IR Receiver Diode** - Will detect an IR signal coming from a standard IR remote control or the IR diode included in the kit
- **IR Diode** - Handles up to 50mA of current and outputs in the 940-950nm IR spectrum, ideal to send a signal to talk to the included IR receiver diode
- **Resistor 10KOhm 1/4 Watt PTH** - 20 pack (Thick Leads), 1/6th Watt, +/- 5% tolerance PTH resistors used in breadboards and perf boards as pullups, pulldowns, and current limiters
- **Resistor 1.0MOhm 1/4 Watt PTH** - Two 1/4th Watt, +/- 5% tolerance PTH resistors used in breadboards and perf boards
- **Resistor 330Ohm 1/4 Watt PTH** - 20 pack (Thick Leads), 1/6 Watt +/- 5% tolerance PTH resistors used in breadboards and perf boards as current-limiting resistors for LEDs
- **(2) Qwiic Cable, 100mm** - Used to connect up to three Qwiic boards in the kit

Mouser Part Number

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To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-sensor-kit/>