

Flex Sensor 2.2"

Flex Sensor 2.2" RoHS Compliant Description: A simple flex sensor 2.2" in length. As the sensor is flexed, the resistance across the sensor increases. The resistance of the flex sensor changes when the metal pads are on the outside of the bend (text on inside of bend). Connector is 0.1" spaced and bread board friendly. Note: Please refrain from flexing or straining this sensor at the base. The usable range of the sensor can be flexed without a problem, but care should be taken to minimize flexing outside of the usable range. For best results, securely mount the base and bottom portion and only allow the actual flex sensor to flex.



Features

- Angle Displacement Measurement
- Bends and Flexes physically with motion device
- Possible Uses
- Low profile
- Simple construction

Applications

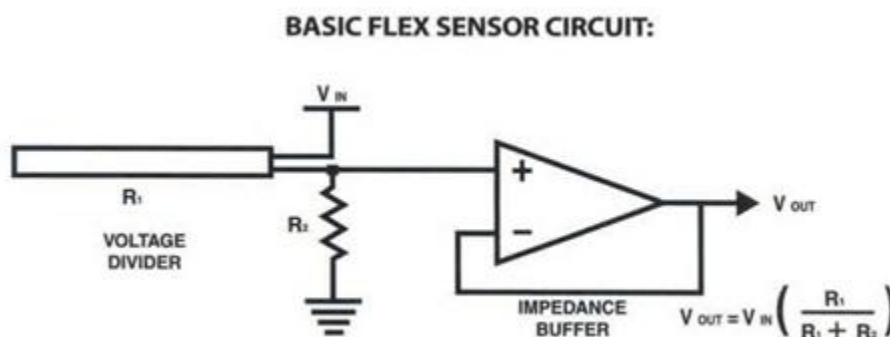
- Robotics
- Gaming (Virtual Motion)
- Medical Devices
- Computer Peripherals

Specifications

Parameter	Value
Life cycle	>1 million
Height	<0.43mm
Temperature range	-35C to +80C

Working

The impedance buffer in the [Basic Flex Sensor Circuit] is a single sided operational amplifier, used with these sensors because the low bias current of the op amp reduces error due to source impedance of the flex sensor as voltage divider.



Sample Application

To view sample code and schematic click the below link:

<http://researchdesignlab.com/index.php/sensors/flex-sensor-17.html>

To buy this product click the below link

<http://researchdesignlab.com/index.php/sensors/flex-sensor-17.html>

To view the complete datasheet of Flex sensor click the below link:

<http://forum.researchdesignlab.com/datasheet/flexsensor>



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