



Flex Sensor 2.2"

SEN-10264 ROHS ✓

★★★★☆ 11

DESCRIPTION

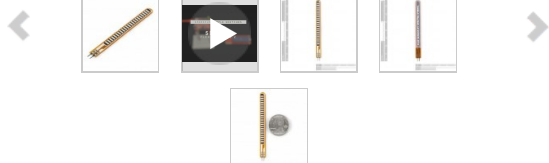
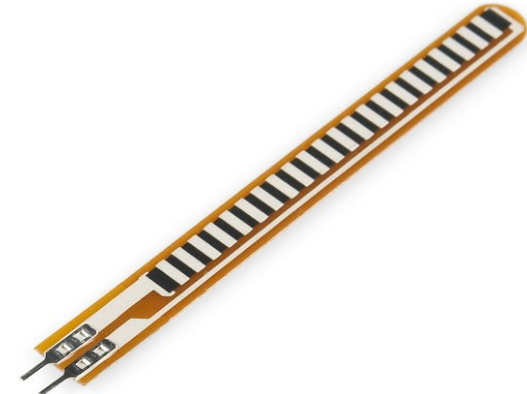
DOCUMENTS

A simple flex sensor 2.2" in length. As the sensor is flexed, the resistance across the sensor increases. Patented technology by Spectra Symbol - they claim these sensors were used in the original [Nintendo Power Glove](#). I love the Nintendo Power Glove. It's so bad!

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. Check datasheet for full specifications.

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.



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Flex Sensor 2.2" Product Help and Resources

TUTORIALS

VIDEOS

SKILLS NEEDED



Flex Sensor Hookup Guide

MAY 5, 2016

An overview of the flex sensor - a bendable variable resistor. Plus, example circuits and Arduino code to get you started!

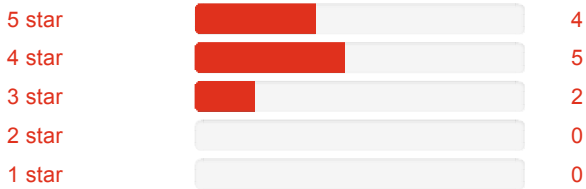
COMMENTS 27

REVIEWS ★★★★★ 11

Customer Reviews

★★★★☆ 4.2 out of 5

Based on 11 ratings:



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1 of 1 found this helpful:

★★★★☆ finally in my hands

about 3 years ago by **Member #608163** 

I got the sensor and perform the corresponding test. all in prefect condition. thank you.

1 of 1 found this helpful:

★★★★☆ The Base is poorly Designed

about 2 years ago by **Member #739711** 

Right above the solder tabs, the very flexible base bends everytime the flex sensor is bent I.E. leading to high probability of it breaking. Apart from that its good.

1 of 2 found this helpful:

★★★★☆ Acceptable

about 2 years ago by **Member #738862** 

The flex sensor worked well, but in my opinion both the sensor and the shipping was too expensive. About 11 dolars for a small sensor is too much.

1 of 2 found this helpful:

★★★★☆ Really Easy to Use

about 3 years ago by **Member #732175** 

I thought I might need some special OpAmp circuit to get a decent range of readings from this. It turned out that my DMM set on reading resistance was more than adequate.

★★★★☆ To fragile and electrodes to small

about a year ago by **Member #945092** 

I Think it is to fragile and the electrodes is to small, and it is to easy to damage it Beyond repair.

 **Kansukee/f** replied on May 4, 2017:

Hello!

Sorry to hear about the issues with the flex sensor. Have you contacted our technical support department @ techsupport@sparkfun.com about this issue? They may be able to help outline use cases that show what uses we have found these effective in and help find a way to use them without easily damaging them.

★★★★★ Working perfectly and great range of values

about a year ago by **Member #850619** 

I'm using this in a MIDI controller glove and it has been working great. I'm getting resistance values ranging from 30kohm to 130kohm! As others have mentioned, it's a good idea to secure the base onto something inflexible as that part isn't really intended to bend.

★★★★★ I love it!

about 2 months ago by **Member #1280794** 

i really like this item for my project

★★★★★ Flex sensor

about 2 years ago by [Member #510469](#) ✓ verified purchaser

surprisingly sensitive. I've been trying to sense movements in a solar collector with strain gauges. Whereas a strain gauge is far more stable and repeatable, this sensor changes value when flexed and needs little or no amplification for a detectable signal. I see why they are used in gaming gloves.

★★★★★ Great flex sensor - can detect both directions!

about a year ago by [Member #871034](#) ✓ verified purchaser

Flex sensor is very responsive one way, and also has some sensitivity (going down to about 22kohms) when flexing backwards. Quite handy!

★★★☆☆ The leads are very thin!!

about a year ago by [VanHenderson](#) ✓ verified purchaser

The leads are very thin and bend very easily when students try to put them into the breadboards. Functionally, the sensor works great



START
SOMETHING.



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In 2003, CU student Nate Seidle blew a power supply in his dorm room and, in lieu of a way to order easy replacements, decided to start his own company. Since then, SparkFun has been committed to sustainably helping our world achieve electronics literacy from our headquarters in Boulder, Colorado.

No matter your vision, SparkFun's products and resources are designed to make the world of electronics more accessible. In addition to over 2,000 open source components and widgets, SparkFun offers curriculum, training and online tutorials designed to help demystify the wonderful world of embedded electronics. We're here to help you start something.

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