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FlexiForce Pressure Sensor - 100lbs.

● SEN-08685 ROHS✔

★★★⯪☆ 3

DESCRIPTION   DOCUMENTS

This is a piezoresistive force sensor from Tekscan. The harder you press, the lower the sensor's resistance. Pressing hard, the resistance changes from infinite to ~300k. The sensor itself is thin and flexible, but the resistance does not change while being flexed. Resistance changes only when pressure is applied to the round area at the end of the sensor. Used as a presence sensor (someone standing), weight sensor, pressure sensor (impact testing), etc.

The overall length is about 8.5". Sensor comes with 0.1" spaced, reinforced, breadboard friendly connector.

This sensor comes in three flavors. This sensor ranges from 0 to 100lbs of pressure in the mega-ohm range.

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FlexiForce Pressure Sensor - 100lbs. Product Help and Resources

SUPPORT TIPS   SKILLS NEEDED

Calibration
last updated about 9 months ago

For information on how to calibrate your sensor go here => http://www.tekscan.com/how-do-i-calibrate-my-flexiforce-sensor.

COMMENTS 28   REVIEWS ★★★⯪☆ 3

Customer Reviews

★★★⯪☆ **3.7 out of 5**

Based on 3 ratings:

5 star		0
4 star		2
3 star		1
2 star		0
1 star		0

Currently viewing all customer reviews.

1 of 1 found this helpful:

★★★★☆ **Good sensor**

about 3 years ago by Member #577591 ✔ verified purchaser

It does what it's supposed to do. Quite reliable in terms of linearity, but drifts a lot with time…Very noisy in low (<3-4kg) forces. Cannot compare to load cells, but it's a good, cheap, alternative

★★★☆☆ **Good depending on use. Read datasheet!**

about 3 years ago by Member #571166 ✔ verified purchaser

This product works well for instantaneous pressure readings BUT not for near constant weight. Drift is a big problem which needs constant adjustment. Hysteresis on decreasing weight is almost unworkable. The datasheet explains these but these errors are considerable. I emailed TEKSCAN for an equation for log time drift but received with no answer. I had to derive my own. During install, one of the four sensors was damaged. These things are very fragile. It is important to build a sturdy harness. The long flexible lead is a drawback for this product. I switched to load cells taken from a bathroom scale and an HX711.

★★★★☆ **Best pressure sensor for the money**

about 2 years ago by Member #720313 ✔ verified purchaser

Good range with a simple set up

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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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