

# FlexiPot<sup>™</sup>

### Low Power Position Sensor with Linear Output

FlexiForce's potentiometers, FlexiPot Strip and Ring, are customizable membrane position sensors with a flexible, ultra-thin, lightweight profile. Its low power requirements and linear output make it the ideal position sensor for test and measurement or embedded applications. Both FlexiPot Strip and Ring can be used with our test & measurement, prototyping, and embedding electronics, including the FlexiForce Sensor Characterization Kit, FlexiForce Prototyping Kit, FlexiForce Quickstart Board, and the ELF™ System. You can also use your own electronics, or multimeter.

## Physical Properties

### FlexiPot Strip\*

Thickness 0.203 mm (0.008 in.)

Length of Rectangle Sensing Area

Sensor Length 91.2 mm (3.59 in.)\*\*

Width of Rectangle Sensing Area

Sensor Width 11.6 mm (0.46 in.)

Connector 3-pin Male Square Pin Substrate

### FlexiPot Ring\*

**Thickness** 0.203 mm (0.008 in.) Outer Sensing 42.4 mm (1.67 in.) Area Diameter Sensor Length 74.4 mm (2.93 in.)\*\* Inner Sensing 33.8 mm (1.33 in.) Area Diameter Total Outer Diameter 49.0 mm (1.93 in.) Total Inner Diameter 27.2 mm (1.07 in.) Connector 3-pin Male Square Pin Substrate Polyester



<sup>\*</sup> Custom dimensions are available for the strip and ring sensors

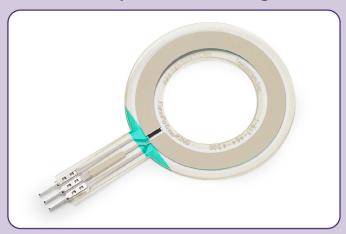
<sup>\*\*</sup>Length does not include pins, please add approximately 6mm (0.25 in.) for pin length



### **Example of FlexiPot Strip**

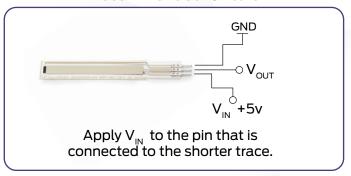


### **Example of FlexiPot Ring**



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### **Recommended Circuit**



	Typical Performance
Linearity (Error)	< ±2.0% of full scale
Repeatability	< ±1.0% of full scale
Spatial Resolution	< 2% of full scale
Operating Temperature	-40°C - 60°C (-40°F - 140°F)

Force reading change per degree of temperature change = 0.36%/°C (±0.2%/°F)



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