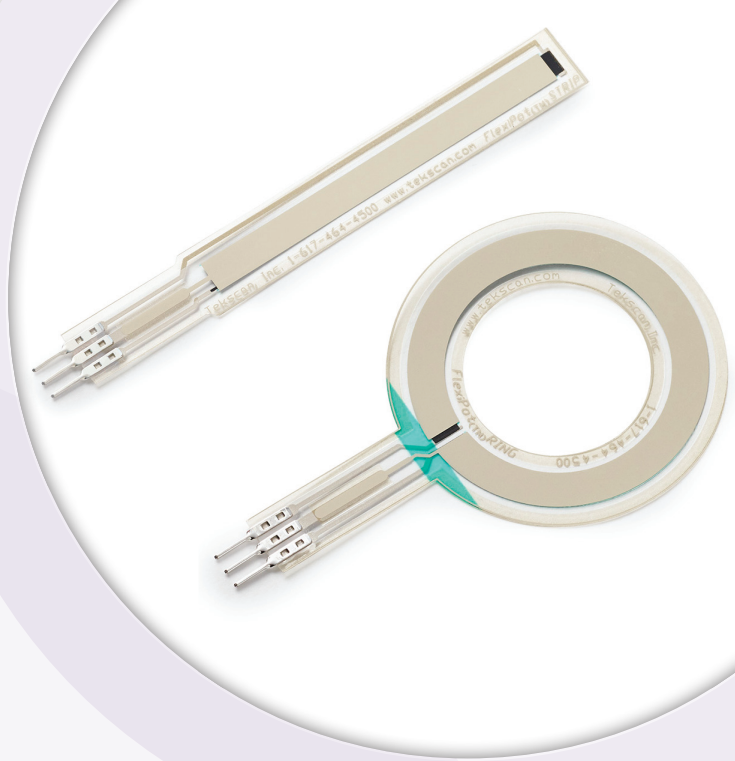


# FlexiPot™

Low power position sensor with a 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.

## BENEFITS

- Available in both ring and strip formations
- Resistance proportional to contact placement
- Linear output
- Low power requirements

## PHYSICAL PROPERTIES

### FlexiPot Strip\*

Thickness	0.203 mm (0.008 in.)
Length of Rectangle	63.5 mm (2.50 in.)
Sensing Area	
Sensor Length	91.2 mm (3.59 in.)**
Width of Rectangle	4.3 mm (0.17 in.)
Sensing Area	
Sensor Width	11.6 mm (0.46 in.)
Connector	3-pin Male Square Pin
Substrate	Polyester (ex: Mylar)

### FlexiPot Ring\*

Thickness	0.203 mm (0.008 in.)
Outer Sensing Area Diameter	42.4 mm (1.67 in.)
Sensor Length	74.4 mm (2.93 in.)**
Inner Sensing Area Diameter	33.8 mm (1.33 in.)
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 (ex: Mylar)

✓ ROHS COMPLIANT

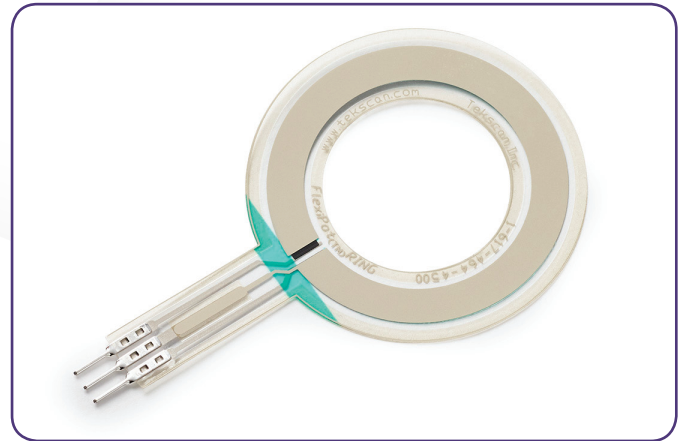
\* Custom dimensions are available for the strip and ring sensors

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

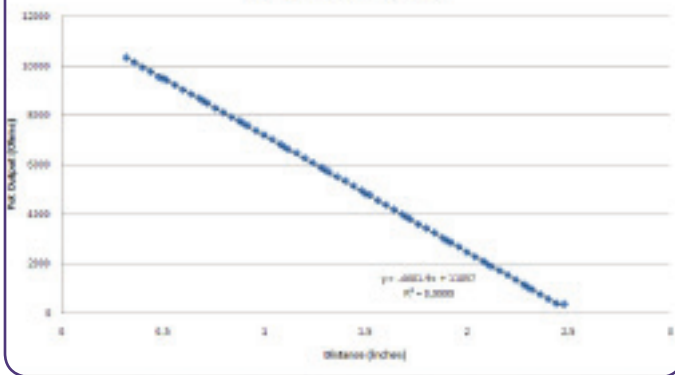
## Example of FlexiPot Strip



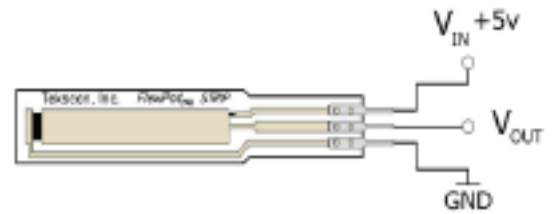
## Example of FlexiPot Ring



Resistance vs. Position



## Recommended Circuit



Apply  $V_{IN}$  to the pin that is connected to the shorter trace.

## Typical Performance

Linearity (Error)	< $\pm 2\%$
Repeatability	< $\pm 1\%$ of full scale
Spatial Resolution	< 2 % of full scale
Operating Temperature	Standard: $-40^{\circ}\text{C} - 60^{\circ}\text{C}$ ( $-40^{\circ}\text{F} - 140^{\circ}\text{F}$ )



ISO 9001 & 13485



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