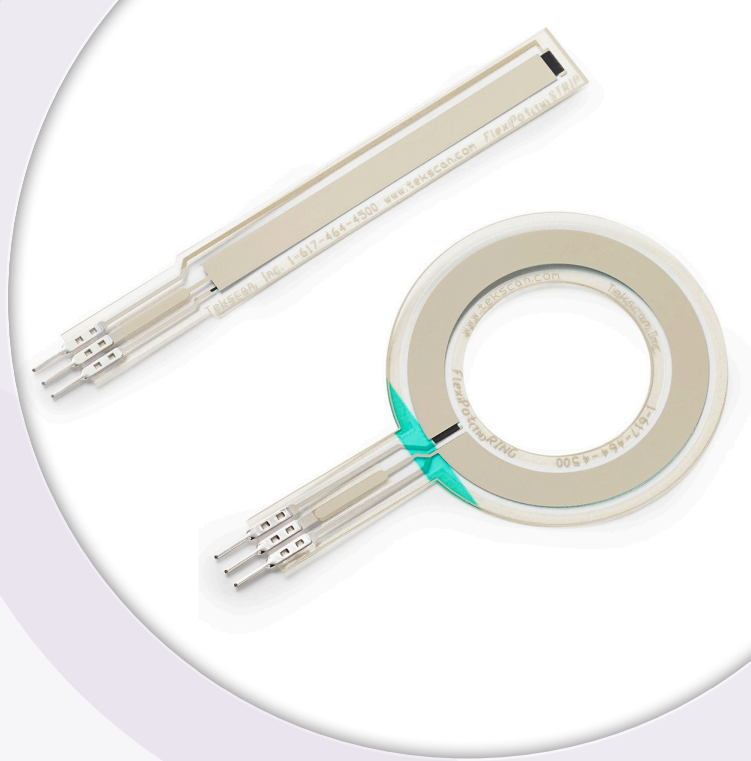


# FlexiPot™

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 Sensing Area | 63.5 mm (2.50 in.)    |
| Sensor Length                    | 91.2 mm (3.59 in.)**  |
| Width of Rectangle Sensing Area  | 4.3 mm (0.17 in.)     |
| 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

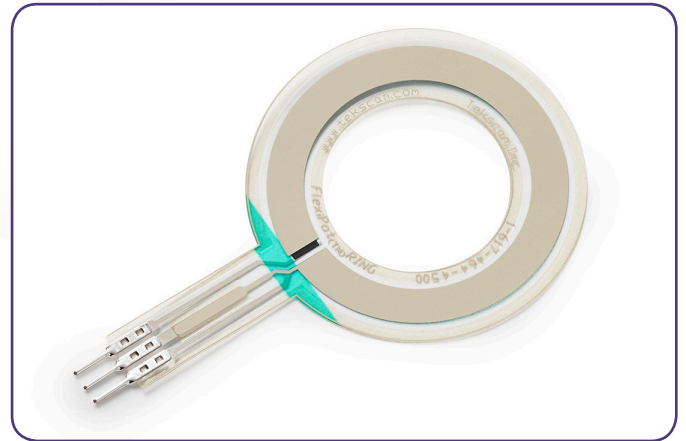
\* Custom dimensions are available for the strip and ring sensors

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

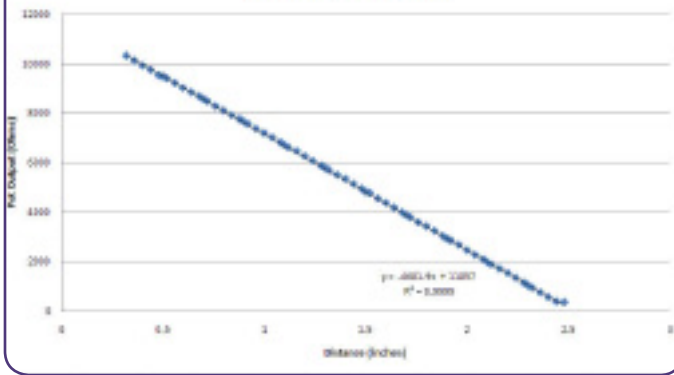
## Example of FlexiPot Strip



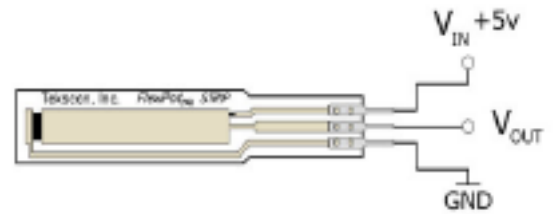
## Example of FlexiPot Ring



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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