

FlexiPot™

by FlexiForce®, a Division of Tekscan, Inc.
a low power position sensor with a linear output

Physical Properties

FlexiPot Strip*

Thickness	0.008" (0.208 mm)
Length of Rectangle Sensing Area	2.50" (63.5 mm)
Total Length of Rectangle	3.59" (91.3 mm)
Width of Rectangle Sensing Area	0.17" (4.3 mm)
Total Width of Rectangle	0.46" (11.6 mm)
Connector	3-pin Male Square Pin
Substrate	Polyester (ex: Mylar)

FlexiPot Ring*

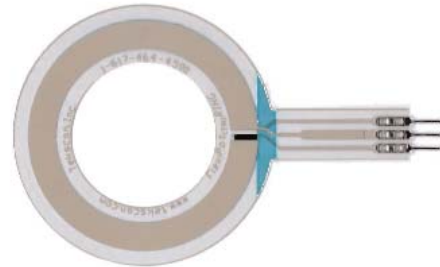
Thickness	0.008" (0.208 mm)
Outer Sensing Area Diameter	1.67" (42.4 mm)
Inner Sensing Area Diameter	1.33" (33.8 mm)
Total Outer Diameter	1.93" (49.0 mm)
Total Inner Diameter	1.07" (27.2 mm)
Connector	3-pin Male Square Pin
Substrate	Polyester (ex: Mylar)

* Custom dimensions are available for the strip and ring sensors

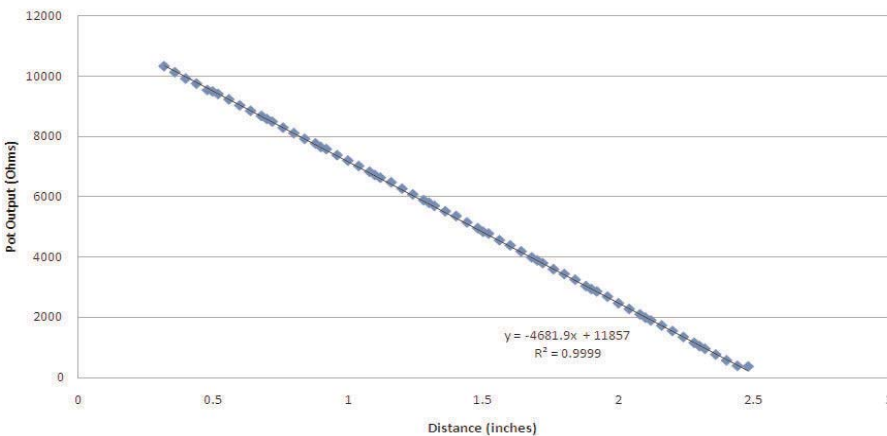
Example of FlexiPot Strip



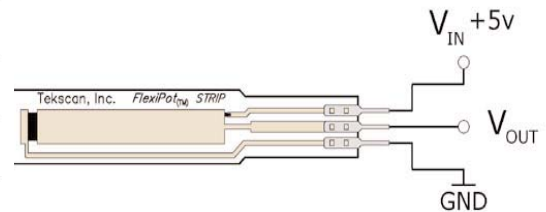
Example of FlexiPot Ring



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: 15°F - 140°F (-9°C - 60°C)