

## ● — Circular Force Sensor Resistor — ●

### ◆ **Description :**

These sensors are designed to measure force and pressure in a wide range of applications. Flexible, cost-efficient, compact and versatile force-sensing solution can be custom designed for specific applications and offers various integration possibilities. Its diminutive size makes it ideal for applications where space is a premium, such as in medical devices, robotics, and consumer electronics etc.



### ◆ **Application :**

- Sports & Medical Performance Optimization
- Diagnosing Foot Conditions
- Rehabilitation Progress Tracking
- Gait Analysis
- Footwear Development

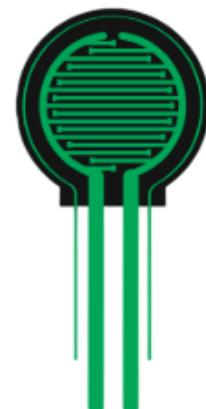
### ◆ **Interface Diagram :**



**Sequence - 1**



**Sequence - 2**



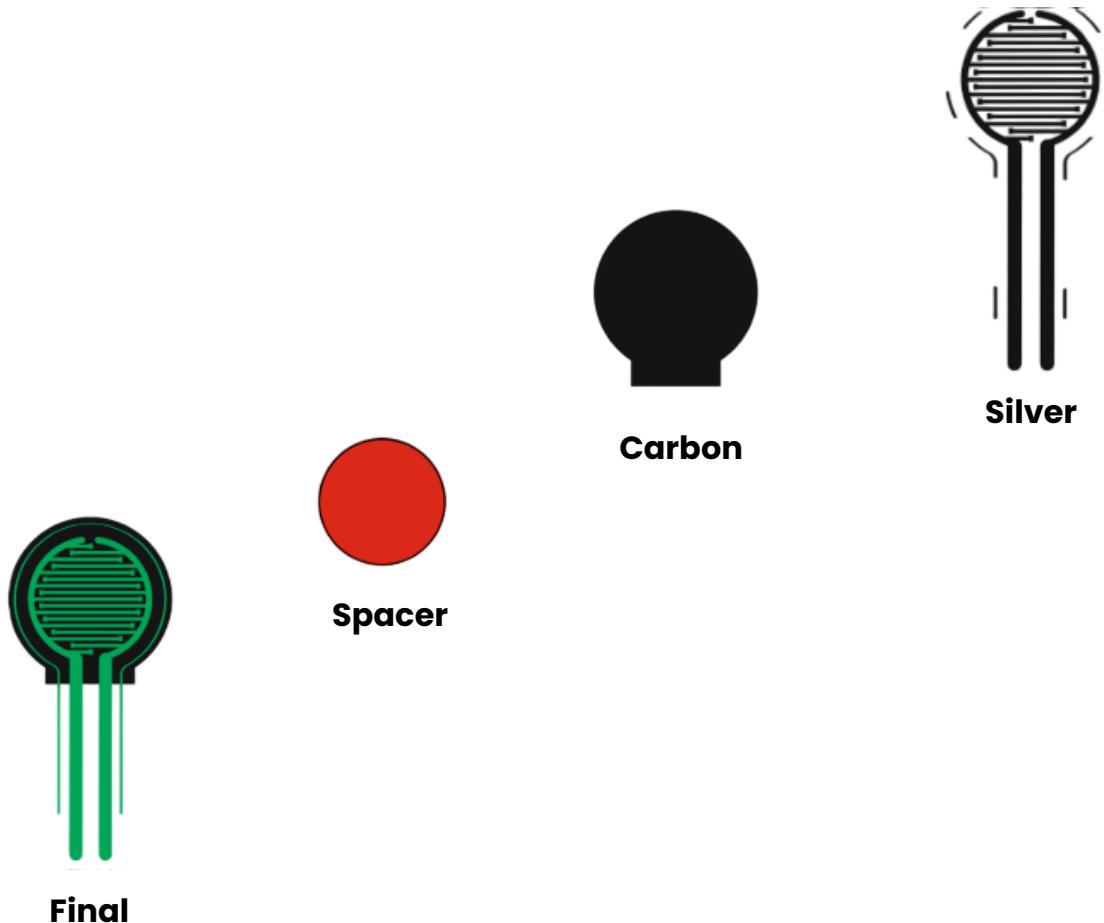
**Sequence - 3**

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### ◆ **Feature :**

- Wide Force Sensing Range (5n to 450n)
- Detects Force, Pressure & Touch
- Thin, Lightweight & Flexible
- Able to withstand extreme temperatures and conditions
- Customizable to a wide range of applications
- Cost Effective Sensing Solutions

### ◆ **Exploded View :**



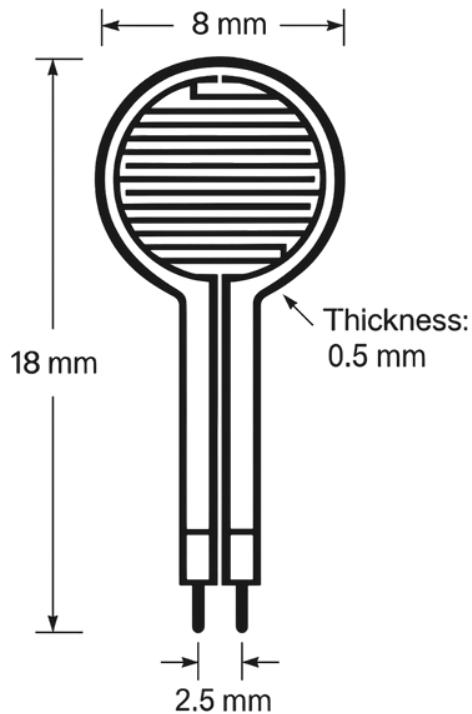
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### ◆ General Information :

Property	Value
<b>Technology</b>	FSR
<b>Response time</b>	< 1 msec
<b>Sensing Area</b>	6 mm in diameter
<b>Single sensor resistance range</b>	0.981 to 1.2M Ohms
<b>Pressure range</b>	0 -71 PSI (0 to 5kg/cm <sup>2</sup> )
<b>Conductive Paste</b>	Silver and Carbon
<b>Material Type</b>	(PET) Polyester durable material
<b>Dimension</b>	18x8 mm
<b>Thickness</b>	0.5 mm
<b>Connector</b>	2-pin Male Pin
<b>Pin spacing</b>	2.5 mm
<b>Accuracy</b>	High precision with $\pm 5\%$
<b>Durability</b>	>1 million times
<b>IP rating</b>	IP67
<b>Country of origin</b>	India

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### ◆ Sensor Mechanical Data :



### ◆ Datasheet Graph :

