

● — 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



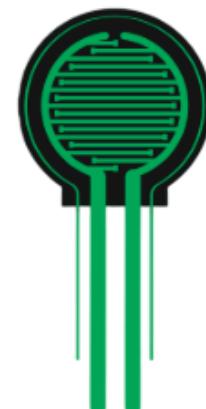
◆ **Interface Diagram :**



Sequence - 1



Sequence - 2



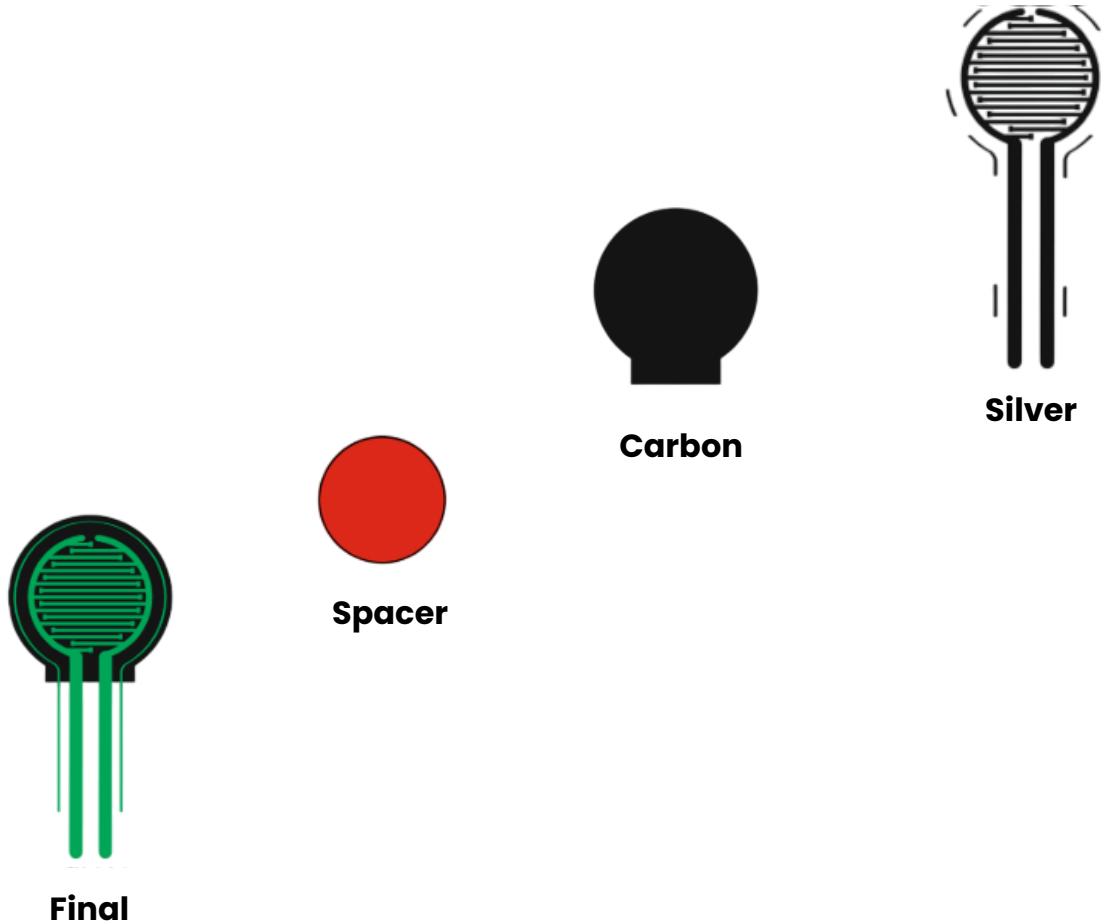
Sequence - 3

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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 :**



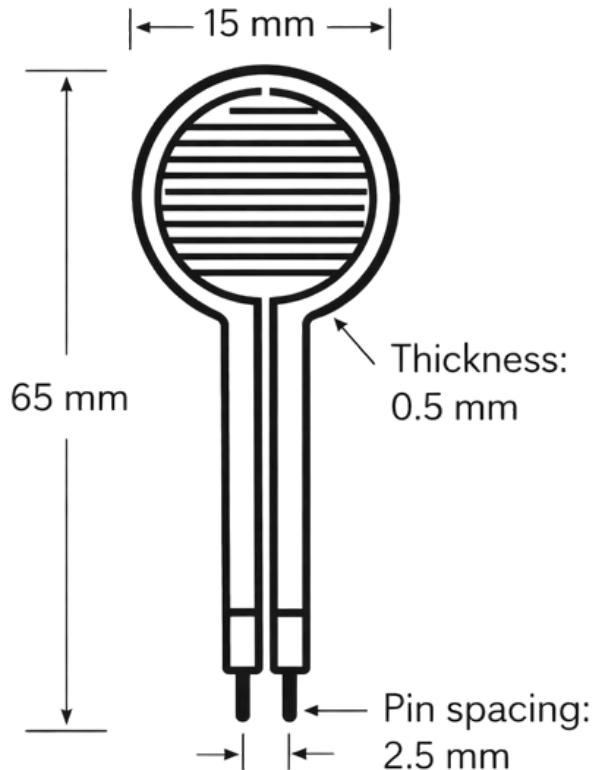
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❖ General Information :

Property	Value
Technology	FSR
Response time	< 1 msec
Sensing Area	15 mm in diameter
Single sensor resistance range	0.981 to 1.2M Ohms
Pressure range	0 -71 PSI (0 to 5kg/cm ²)
Conductive Paste	Silver and Carbon
Material Type	(PET) Polyester durable material
Dimension	18x65 mm
Thickness	0.5 mm
Connector	2-pin Male Pin
Pin spacing	2.5 mm
Accuracy	High precision with $\pm 5\%$
Durability	>1 million times
IP rating	IP67
Country of origin	India

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◆ Sensor Mechanical Data :



◆ Datasheet Graph :

