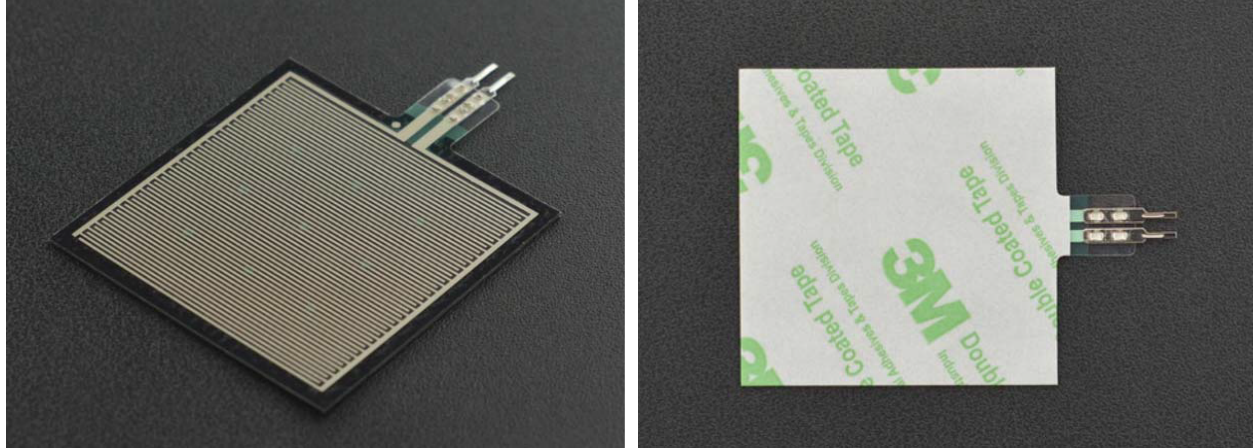




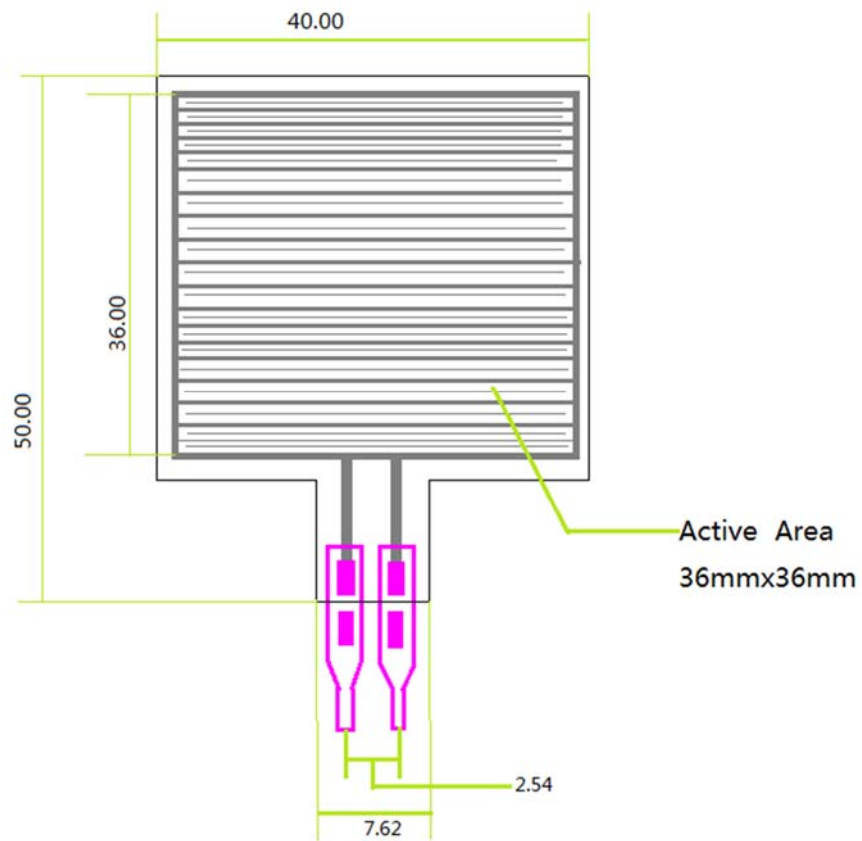
RP-S40-ST Thin Film Pressure Sensor 40mmx40mm

SKU:SEN0296

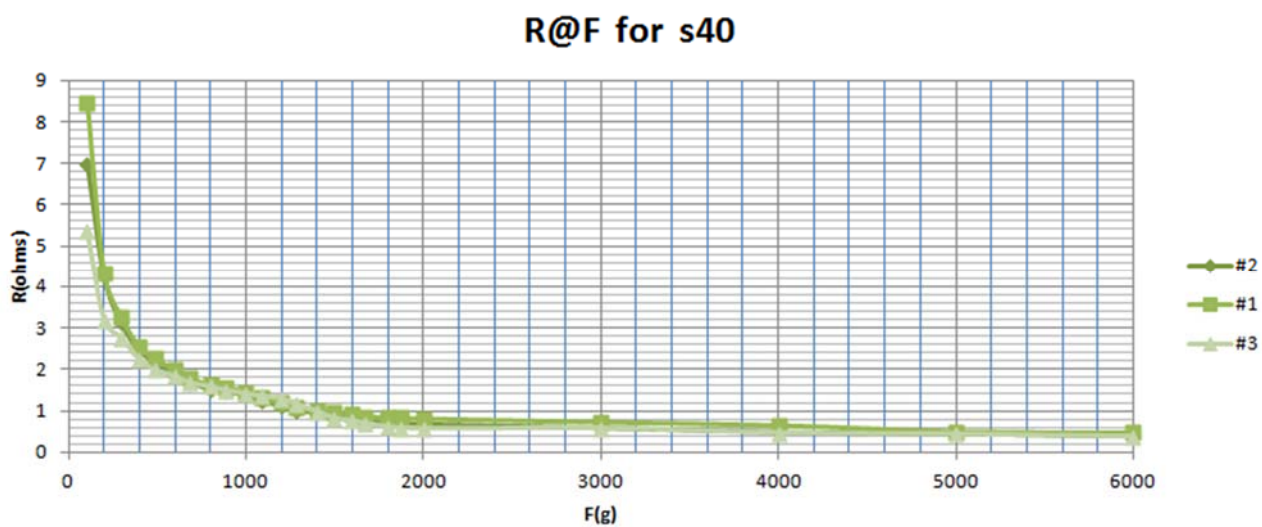
INTRODUCTION

This is a square flexible thin film pressure sensor of short legs with a side length of 40mm, which can be used to realize highly sensitive detection of pressure. The sensor is durable and designed to sense static and dynamic pressure in a high respond speed. Its advantages of recording the intensity and frequency of force make it widely used in all kinds of applications, such as, pressure switch, bed monitoring system, intelligent sneaker and medical device system. These sensors are also very easy to use.

RP-C flexible pressure sensor is made of ultra-thin film of excellent mechanical property, excellent conductive materials and nanometre pressure sensitive layers. There are thin film and pressure sensitive layer on the upper layer of the sensor, and thin film and conductive circuit on the lower layer. These two layers are glued together by double sided tape. When outside pressure applies to the active area, the disconnected circuit of the lower layer will be connected through the pressure sensitive layer of the upper layer, by which to convert pressure into resistance. The output resistance decreases as pressure increases.



RP-S40-ST Dimension Diagram



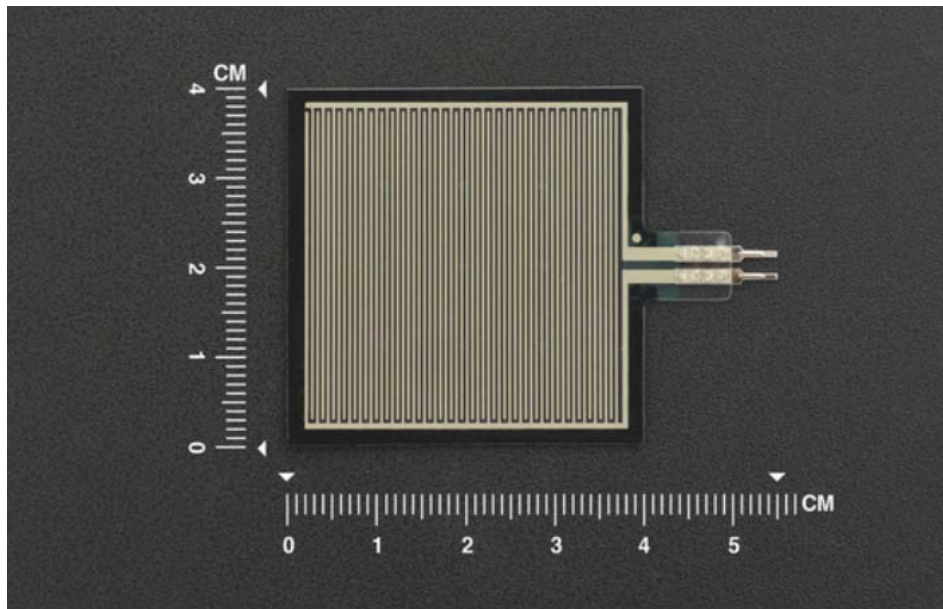
Force vs Resistance

SPECIFICATION

- Thickness: 0.45mm
- Trigger Force: 20g, triggered (default resistance<200k Ω)
- Pressure Measuring Range: 20g~10kg
- Static Pressure & Dynamic Pressure Measurement (within the frequency of 10Hz)
- Initial Resistance: >10M Ω
- Activation Time: <0.01S
- Operating Temperature: -40°C~+85°C
- Lifespan: >1million times
- Hysteresis: +10%, (RF+ -RF-)/FR+, 1000g Force
- Response Time: <10ms
- EMI: Not generate
- EDS: Not generate
- Drift: <5%, 2.5Kg Force , Static load 24H

SHIPPING LIST

- RP-S40-ST Thin Film Pressure Sensor x1



<https://www.dfrobot.com/product-1842.html?search=SEN0296/5-9-19>