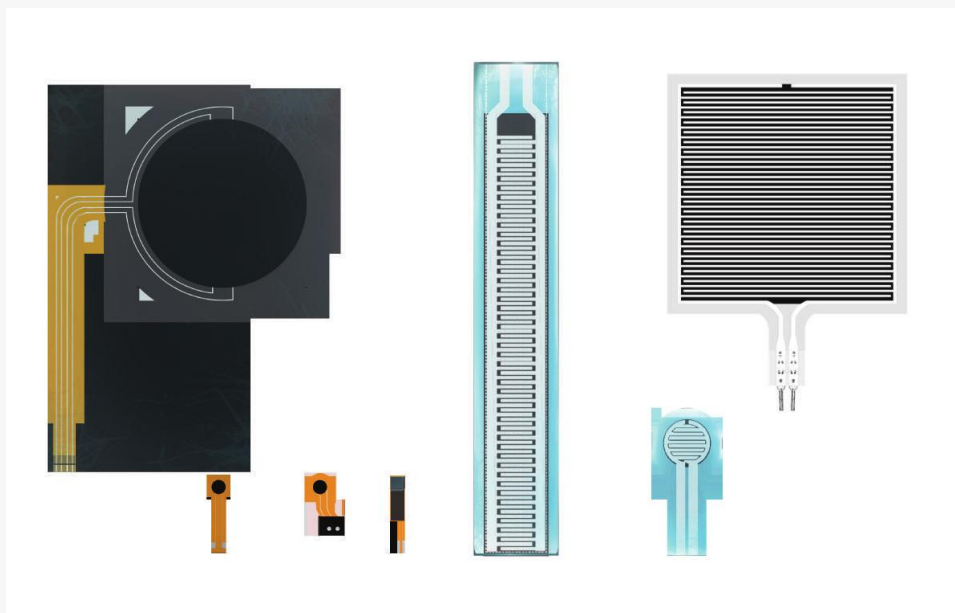


SensorsX SX-PFZAAC01 Series

Resistive Flexible Film Pressure Sensor — Touch & Pulse Sensing

Touch Sensing | Pulse Detection | Wearables | IoT Devices

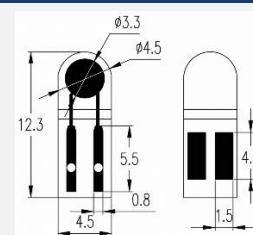


10-100 gf (0.098-0.981 N) Sensing Range	0.3 mm Thickness	< 10 gf (< 0.098 N) Response Point
< 5 ms Response Time	> 1 MΩ Initial Resistance (no load)	3.3 V typical Test Voltage

Touch Sensing | Pulse Detection | Wearables | IoT Devices

■ PRODUCT OVERVIEW

The SX-PFZAAC01 Resistive Flexible Film Pressure Sensor is designed specifically for touch and pressure sensing applications. It offers high sensitivity, flexibility, and bend resistance. Based on flexible nano-material technology, the response time is less than 5 ms. Long service life with capability to withstand more than 1,000,000 repeated presses. Low power consumption with near open-circuit state at standby. Sensor shape, measurement range, and minimum response point are all customizable.



■ KEY FEATURES

◆ High Sensitivity Designed for touch pressure sensing with high sensitivity	◆ Flexible & Bend-Resistant Flexible construction that withstands repeated bending
◆ Fast Response Nano-material technology with response time < 5 ms	◆ Long Service Life Withstands > 1,000,000 repeated presses
◆ Low Power Near open-circuit state at standby; low power consumption	

■ TYPICAL APPLICATIONS

Industries Served

• Touch pressure sensing interfaces	• Pulse and heart rate detection	• Wearable health devices
• Smart Seat Cushion	• Consumer electronics	• IoT devices

■ PERFORMANCE SPECIFICATIONS

Sensing

Model Number	SX-PFZAAC01
Sensing Range	10-100 gf (0.098-0.981 N)
Sensor Thickness	0.3 mm
Response Point	< 10 gf (< 0.098 N)
Overall Dimensions	See dimension drawing below

Electrical

Initial Resistance	> 1 MΩ (no load)
Test Voltage	3.3 V (typical)

Environmental

Operating Temperature	< 60 °C (< 140 °F)
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Mechanical

Durability	> 1,000,000 flex cycles (repeated presses)
Response Time	< 5 ms

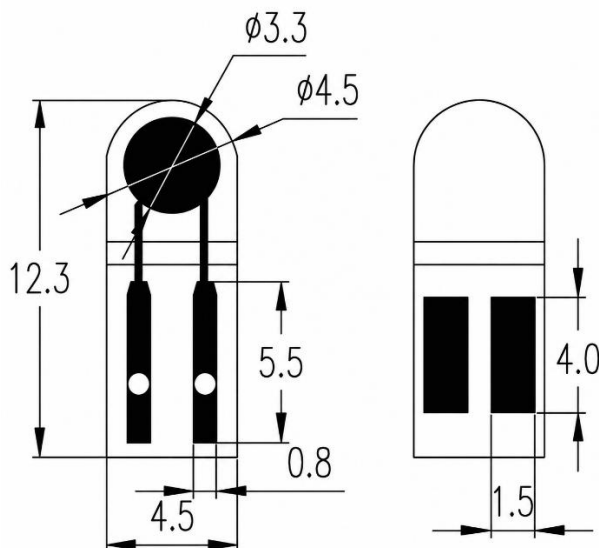
EMC

EMI Emissions	None generated
ESD Sensitivity	Insensitive

Customization

Shape	Customizable sensor shape — contact factory
Range & Response Point	Customizable sensing range and minimum response point — contact factory

■ MECHANICAL DIMENSIONS



※ Sensor shape, sensing range, and minimum response point are customizable. Contact SensorsX Technology Inc. for custom configurations.