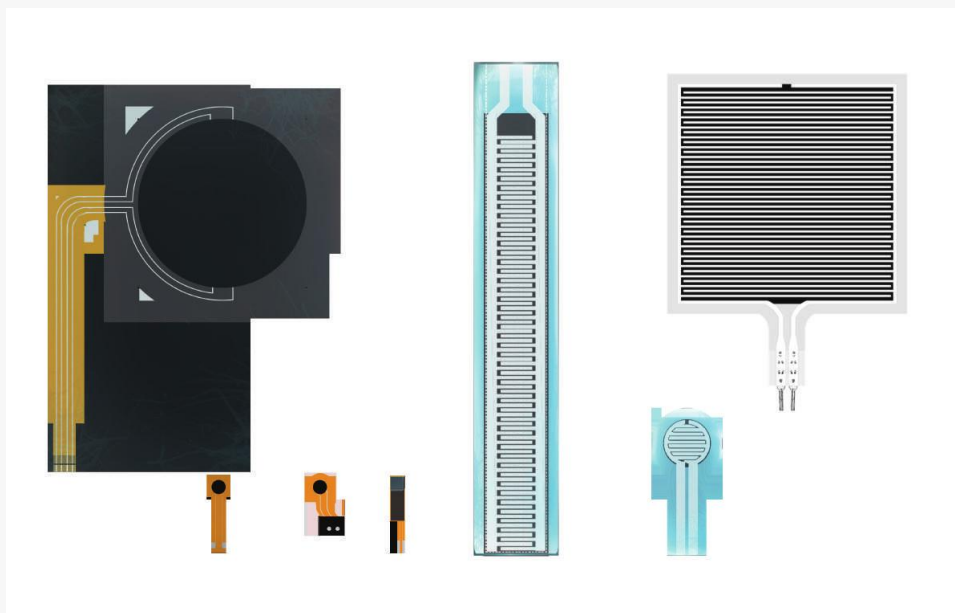


SensorsX

SX-PFZAAS03 Series

Resistive Flexible Film Pressure Sensor — Touch & Pulse Sensing

[Touch Sensing](#) | [Pulse Detection](#) | [Wearables](#) | [IoT Devices](#)

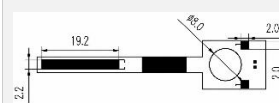


1,000-4,000 gf (9.81-39.2 N) Sensing Range	0.45 mm Thickness	1,000 gf (9.81 N) Response Point
< 5 ms Response Time	> 10 MΩ Initial Resistance (no load)	2.5 V - 4.6 V Test Voltage

[Touch Sensing](#) | [Pulse Detection](#) | [Wearables](#) | [IoT Devices](#)

■ PRODUCT OVERVIEW

The SX-PFZAAS03 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

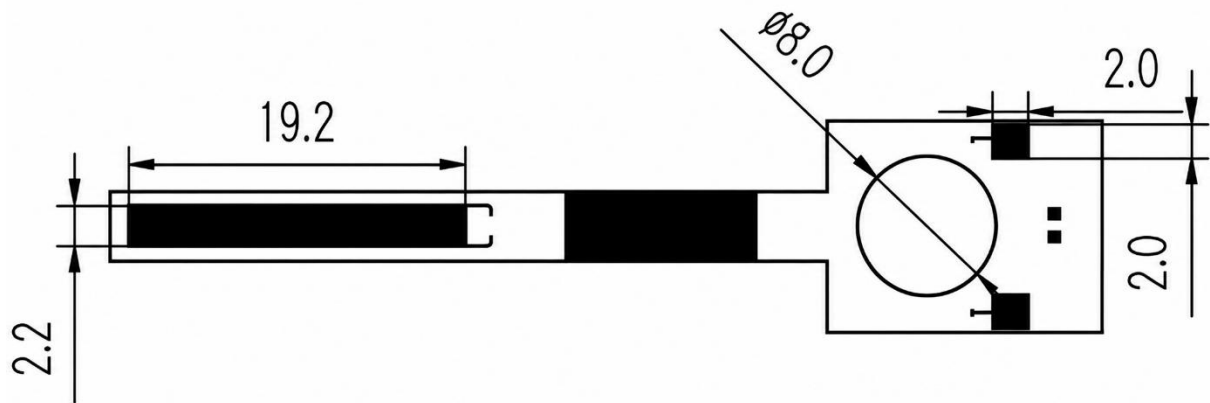
Industries Served

• 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-PFZAAS03
Sensing Range	1,000-4,000 gf (9.81-39.2 N)
Sensor Thickness	0.45 mm
Response Point	1,000 gf (9.81 N)
Overall Dimensions	See dimension drawing below
Electrical	
Initial Resistance	> 10 MΩ (no load)
Test Voltage	2.5 V - 4.6 V
Environmental	
Operating Temperature	-20 to 100 °C (-4 to 212 °F)
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.