SensorsX

SX-PFZAAS03 Series

Resistive Flexible Film Pressure Sensor — Touch & Pulse Sensing

Touch Sensing | Pulse Detection | Wearables | IoT Devices

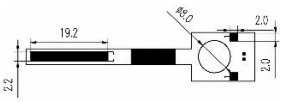


1,000-4,000 gf (9.81-39.2 N) Sensing Range	**0.45 mm** Thickness	**1,000 gf (9.81 N)** Response Point
< 5 ms Response Time	**> 10 MΩ** Initial Resistance (no load)	**2.5 V - 4.6 V** Test Voltage

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

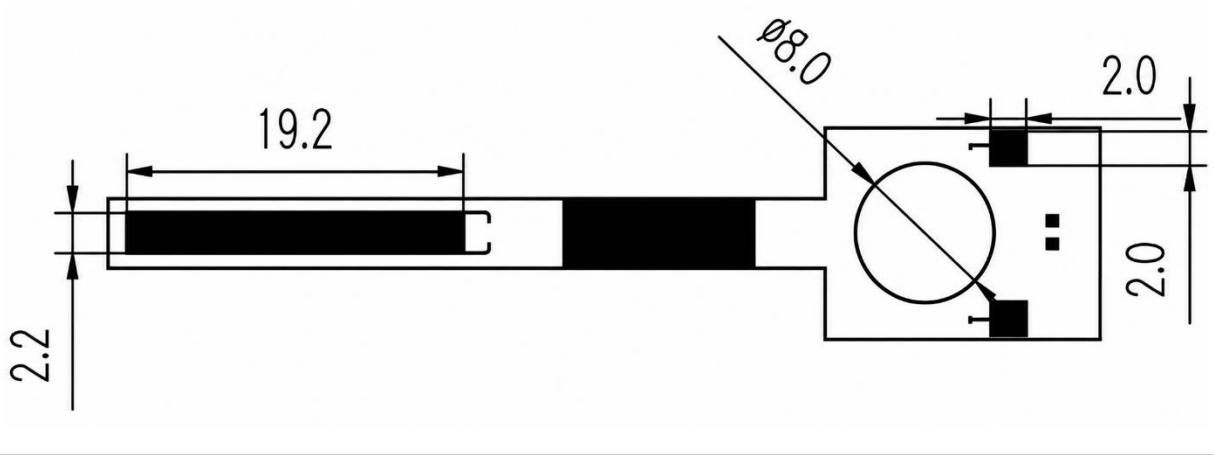
■ PERFORMANCE SPECIFICATIONS

Sensing

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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.*

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