## SensorsX

# SX-PFZAAC02 Series

Resistive Flexible Film Pressure Sensor — Touch & Pulse Sensing

Touch Sensing | Pulse Detection | Wearables | IoT Devices

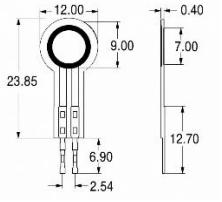


| | | |
|---|---|---|
| **30-300 gf (0.29-2.94 N)**<br>Sensing Range | **0.3 mm**<br>Thickness | **30 gf (0.29 N)**<br>Response Point |
| **< 5 ms**<br>Response Time | **> 10 MΩ**<br>Initial Resistance (no load) | **2.5 V - 4.6 V**<br>Test Voltage |

*Touch Sensing | Pulse Detection | Wearables | IoT Devices*

## ■ PRODUCT OVERVIEW

The SX-PFZAAC02 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

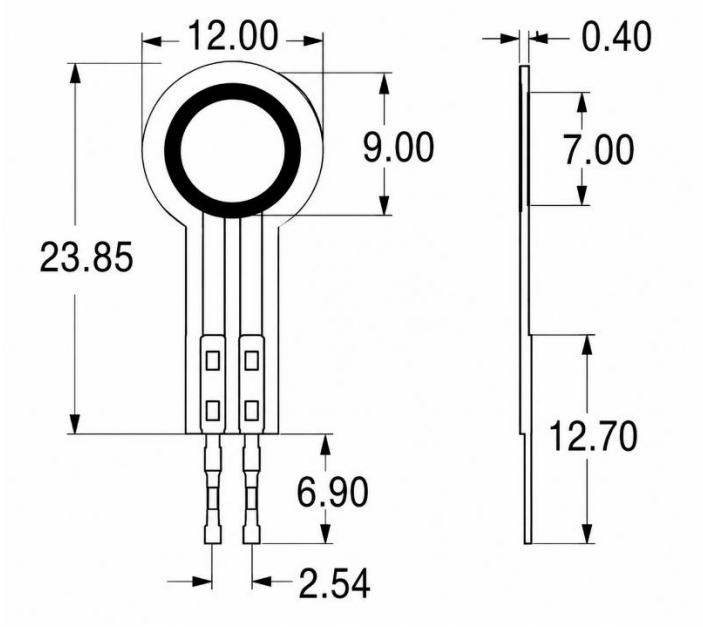
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|---|---|---|
| ● Touch pressure sensing interfaces | ● Pulse and heart rate detection | ● Wearable health devices |
| ● Smart Seat Cushion | ● Consumer electronics | ● IoT devices |


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## ■ PERFORMANCE SPECIFICATIONS

| | |
|---|---|
| **Sensing** | |
| Model Number | SX-PFZAAC02 |
| Sensing Range | 30-300 gf (0.29-2.94 N) |
| Sensor Thickness | 0.3 mm |
| Response Point | 30 gf (0.29 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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