



*Representative photograph, actual product appearance may vary.*

*Due to regional agency approval requirements, some products may not be available in your area.*

*Please contact your regional Honeywell office regarding your product of choice.*

## SX100GSMT

**Pressure Sensors: Measurement Type: Gage; 0 psig to 100 psig Operating Pressure, "SMT" package - No Port**

### Features

- Low Cost
- Small Size
- Absolute or Gauge Pressures
- High-Impedance Bridge
- Low Power Consumption

### Typical Applications

- Pneumatic Controls
- Automotive Diagnostics
- Medical Equipment/ Instrumentation
- Dental Equipment
- Environmental Controls
- Barometric Pressure Measurement
- Altimeters
- Pneumatic Controls
- Battery Powered Equipment

### Description

The SX Series surface mount sensors provide the most cost effective method of measuring absolute and gage pressures in a fully packaged sensor. The unique package design allows measurement of both gage and absolute pressure and a ported package option in a true surface mount sensor. Convenient pressure ranges are available to measure gage and absolute pressures for 0 psi to 1 psi to 0 psi to 150 psi.

The SX series of SMT sensors feature the standard SX chip in a ceramic surface mount package. The standard version features a low profile plastic lid to better withstand high temperatures. The optional ported device offers a tube attachment port that is particularly useful in gage applications.

The SX SMT series sensors are designed primarily for use with clean dry gases such as air, nitrogen, and other like gasses. They offer a 4-pin closed bridge configuration for electrical connection with additional pads provided for mechanical support. Pulsed power is recommended to achieve maximum accuracy and conserve battery power in portable applications.



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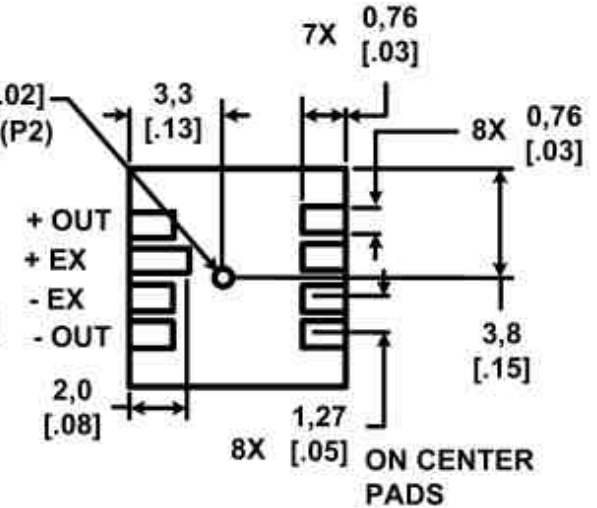
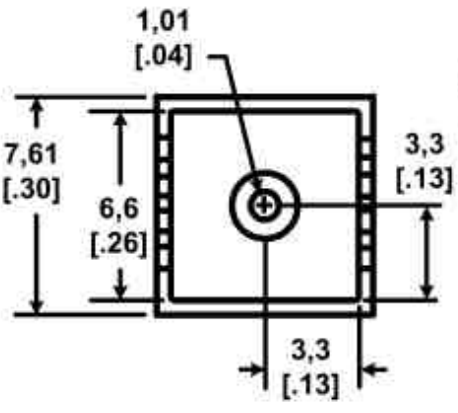
Product Specifications	
Measurement Type	Gage
Signal Conditioning	Unamplified
Pressure Range	0 psig to 100 psig
Maximum Overpressure	150 psi
Supply Voltage	5.0 Vdc typ., 12.0 Vdc max.
Compensated	No
Output Calibration	No
Response Time	.1 ms typ.
Termination	PCB
Port Style	No Port
Package Style	Standard SMT Package
Typical Sensitivity	0.3 mV/mA/psi ± .05 mV/mA/psi
Zero Pressure Offset	-35.0 mV min., -20.0 mV typ., 0.0 mV max.
Linearity, Hysteresis Error	0.2 typ. 0.5 max. %FS
Repeatability	0.5 typ. % span
Input Resistance	4.1 kOhms typ.
Output Resistance	4.1 kOhms typ.
Operating Temperature Range	-40 °C to 125 °C [-40 °F to 257 °F]
Storage Temperature Range	-55 °C to 125 °C [-67 °F to 257 °F]
Media Compatibility	Clean, dry gases only
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Comment	Lead Temperature Soldering 2 s to 4 s at 250 °C [482 °F]
Availability	Global
Series Name	SX Series



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For Reference Only mm [in]



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[Electrical Connections]

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[Equivalent circuit]

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### **WARNING**

#### **PERSONAL INJURY**

DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.

**Failure to comply with these instructions could result in death or serious injury.**

### **WARNING**

#### **MISUSE OF DOCUMENTATION**

- The information presented in this product sheet (or catalog) is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

**Failure to comply with these instructions could result in death or serious injury.**



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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