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XSC100DH



Actual product appearance may vary.

Pressure Sensors: Measurement Type: Differential, Gage, Vaccum Gage; Signal Conditioning: Unamplified; Pressure Range: ± 100.0 psi; Port Style: Button

Features

- Low Cost, Small Size
- Temperature Compensated
- Zero and Span Calibrated
- MilliVolt Output
- Gage, Differential, and Absolute Pressure
- Constant Voltage Excitation
- High Impedance- Low Current

Potential Applications

- Medical Applications
- Applications Requiring Small Size
- Applications Requiring Vacuum, Positive Pressure or Both

Description

The XSXL/XXS and XSCL/XSC Series sensors integrate silicon micromachined sensing technology, temperature compensation, and calibration in a complete family of low cost packages. This series offers the most cost -effective solution for design requirements. These piezoresistive pressure sensors use micromachined silicon chips mounted on a ceramic and protected with a plastic cap. Several tube arrangements with nylon housings are available for various pressure applications. On devices of 5 psi and above, the topside of the chip is protected against humidity by a Silgel coating. While the sensors are designed for use with noncorrosive, nonionic pressure media, they accommodate many gases that are used in medical applications.

Supporting Documentation

 [Dimensions](#)

 [Equivalent Circuit, Pin Designations](#)

 [Engineering Drawing](#)

Product Specifications	
Measurement Type	Differential, Vacuum Gage, Gage
Signal Conditioning	Unamplified
Pressure Range	± 100 psi
Maximum Overpressure	250 psi
Supply Voltage	3.0 Vdc min., 12.0 Vdc typ., 16.0 Vdc max.
Compensated	Yes
Output Calibration	Yes
Termination	PCB
Port Style	No Port
Package Style	Honeywell DI - XSC
Typical Sensitivity	1 mV/psi
Full Scale Span	100 mV typ.
Null Offset	0 mV typ.
Null Shift over Temperature	± 0.5 mV
Span Shift Over Temperature	± 1.0% span
Linearity, Hysteresis Error	± 0.5 % Span
Input Resistance	5.0 kOhm typ.
Output Resistance	3 kOhm max.
Operating Temperature Range	-25 °C to 85 °C [- 13 °F to 185 °F]
Compensated Temperature Range	0 °C to 70 °C [32 °F to 158 °F]
Storage Temperature Range	-40 °C to 125 °C [- 40 °F to 257 ° F]
Media Compatibility	Port 1: Dry gases only. Media must be compatible with epoxy based adhesive. Port 2: Wetted materials. Media must be compatible with nylon housing, epoxy adhesive and silicon.
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Availability	Global
Series Name	XSC

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