Honeywell

Honeywell Sensing and Control



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XCX15DNH



Actual product appearance may vary.

Pressure Sensors: Measurement Type: Differential, Gage, Vaccum Gage; Signal Conditioning: Unamplified; Pressure Range: ± 15.0 psi; Port Style: Barbed: High Grade

Features

Pressure Ranges from 4 in H_2O, 10 in H_2O 1 psi through 150 psi
Calibrated offset to ±/mV
Calibrated Full Scale Span to ±1.0 % FS over Compensated Temperature Range
Temperature Compensated over 0? C to +70 ? C
Gage, Differential, and Absolute Pressure
Burst Pressure 3X Rated
Ratiometric mV Output

Potential Applications

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

Description

The XCXL, XCX Series integrates silicon micromachined sensing technology, temperature compensation, and calibration in an improved performance industry standard package. A unique stress isolating design protects against torque induced errors typically found in competitive products. Additional stability and long term accuracy improvements are gained through simplified compensation techniques, which eliminate temperature dependent thermal compensation. This series is available in a commercial (XCXDNC) performance level. This performance level provides the calibration accuracy of offset thermal compensation, and linearity providing added flexibility to meet critical performance budgets. The XCA and XCR Series provide amplified output as well as integrated compensation.

Supporting Documentation

Dimensions | Equivalent Circuit, Pin Designations | Engineering Drawing

Product Specifications	
Measurement Type	Differential, Vacuum Gage, Gage
Signal Conditioning	Unamplified
Pressure Range	± 15.0 psi
Maximum Overpressure	45.0 psi
Supply Voltage	3.0 Vdc min., 12.0 Vdc typ., 16.0 Vdc max.
Compensated	Yes
Output Calibration	Yes
Termination	PCB
Port Style	Barbed
Package Style	Honeywell DI - XCX
Typical Sensitivity	6 mV/psi
Full Scale Span	90 mV typ.
Null Offset	0 mV typ.
Null Shift over Temperature	± 0.5 mV
Span Shift Over Temperature	± 2% span
Linearity, Hysteresis Error	± 0.3 % Span Typ.; ± 5 % Span Max.
Repeatability	0.1% span typ.
Input Resistance	15.0 kOhm
Shock	10 g
Weight	7.6 g [0.27 oz]
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	XCX

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