

# **Honeywell Sensing and Control**

## XCXL004DNC



Actual product appearance may vary.

Pressure Sensors: Measurement Type: Differential, Gage, Vaccum Gage; Signal Conditioning: Unamplified; Pressure Range: ± 4.0 inches of water; Port Style:

**Barbed: Commercial Grade** 

#### **Features**

- Pressure Ranges from 4 in  $H_2O$ , 10 in  $H_2O$  1 psi through 150 psi
- Calibrated offset to ±/mV
- Temperature Compensated over 0 •C to +70
- 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 (XCX-DNC) 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.

Product Sp	ecifications
Measurement Type	Differential, Vacuum Gage, Gage
Signal Conditioning	Unamplified
Pressure Range	± 4.0 in H <sub>2</sub> O
Maximum Overpressure	5.0 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 10 mV/in $H_2O$ Full Scale Span 40 mV typ.  Null Offset 0 mV typ.  Null Shift over Temperature $\pm$ 1 mV  Span Shift Over Temperature $\pm$ 2% span  Linearity, Hysteresis Error $\pm$ 0.5 % Span Typ.; $\pm$ 1 % Span Max.  Repeatability 0.1% span typ.  Input Resistance 15.0 kOhm  Shock 10 g
Null Offset  0 mV typ.  Null Shift over Temperature  ± 1 mV  Span Shift Over Temperature  ± 2% span  Linearity, Hysteresis Error  ± 0.5 % Span Typ.; ± 1 % Span Max.  Repeatability  0.1% span typ.  Input Resistance  15.0 kOhm
Null Shift over Temperature ± 1 mV  Span Shift Over Temperature ± 2% span  Linearity, Hysteresis Error ± 0.5 % Span Typ.; ± 1 % Span Max.  Repeatability 0.1% span typ.  Input Resistance 15.0 kOhm
Span Shift Over Temperature ± 2% span  Linearity, Hysteresis Error ± 0.5 % Span Typ.; ± 1 % Span Max.  Repeatability 0.1% span typ.  Input Resistance 15.0 kOhm
Linearity, Hysteresis Error ± 0.5 % Span Typ.; ± 1 % Span Max.  Repeatability 0.1% span typ.  Input Resistance 15.0 kOhm
Max.  Repeatability 0.1% span typ.  Input Resistance 15.0 kOhm
Input Resistance 15.0 kOhm
Shock 10 g
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 50 °C [32 °F to 122 °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 epoxybased 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 XCXL

