Honeywell Sensing and Control



XCXL010DNC



Actual product appearance may vary.

Features

• Pressure Ranges from 4 in H₂O, 10 in H₂O 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

Description

Potential Applications

- Medical Applications
- Applications Requiring Small Size

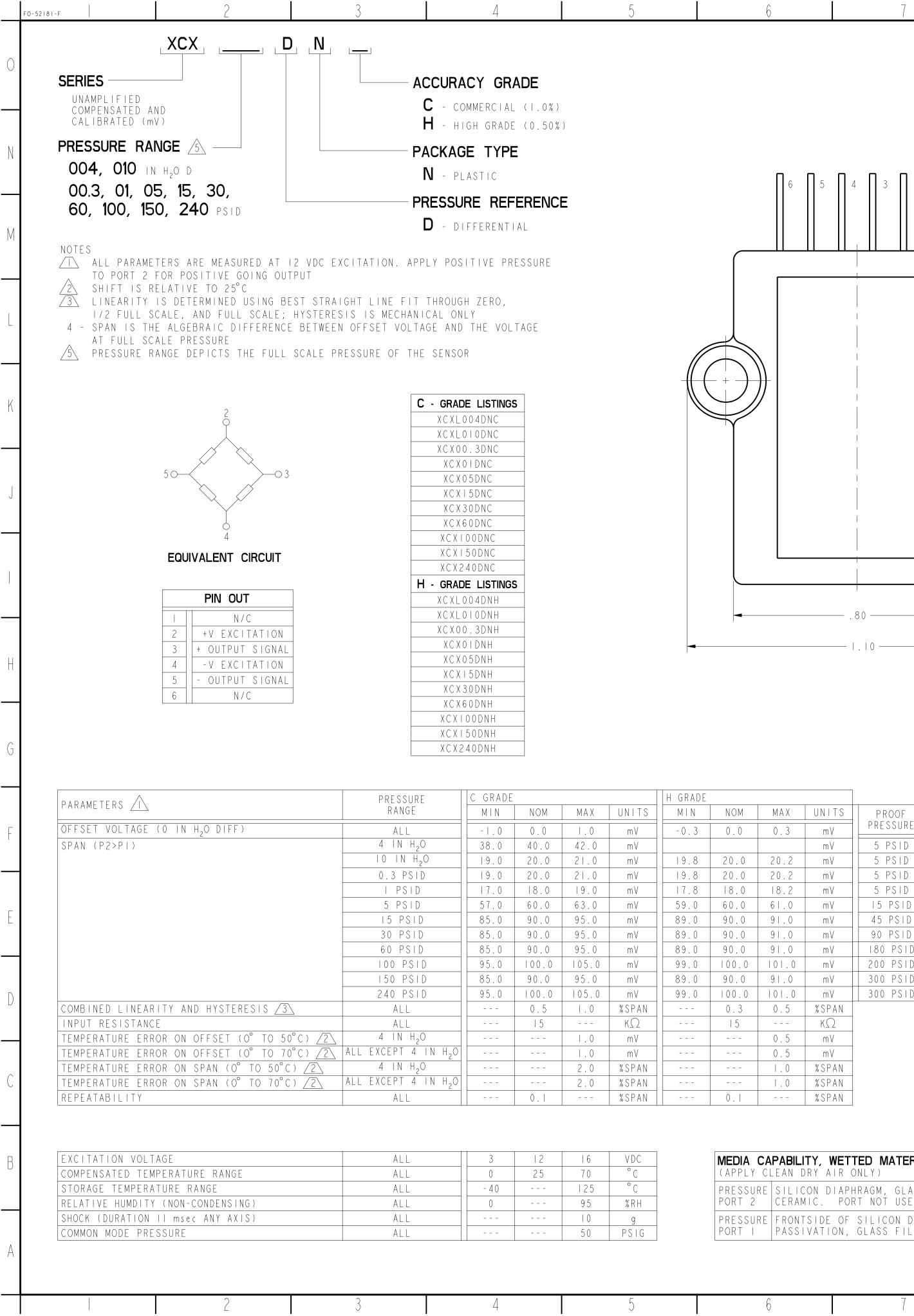
• Applications Requiring Vacuum, Positive Pressure or Both

Pressure Sensors: Measurement Type: Differential, Gage, Vaccum Gage; Signal Conditioning: Unamplified; Pressure Range: ± 10.0 inches of water; Port Style: Barbed: Commercial Grade

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 Specifications					
Measurement Type	Differential, Vacuum Gage, Gage				
Signal Conditioning	Unamplified				
Pressure Range	\pm 10.0 in $\mathrm{H_{2}O}$				
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	РСВ				
Port Style	Barbed				
Package Style	Honeywell DI-XCX				

Typical Sensitivity	2 mV/in H ₂ O
Full Scale Span	20 mV typ.
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
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	XCXL



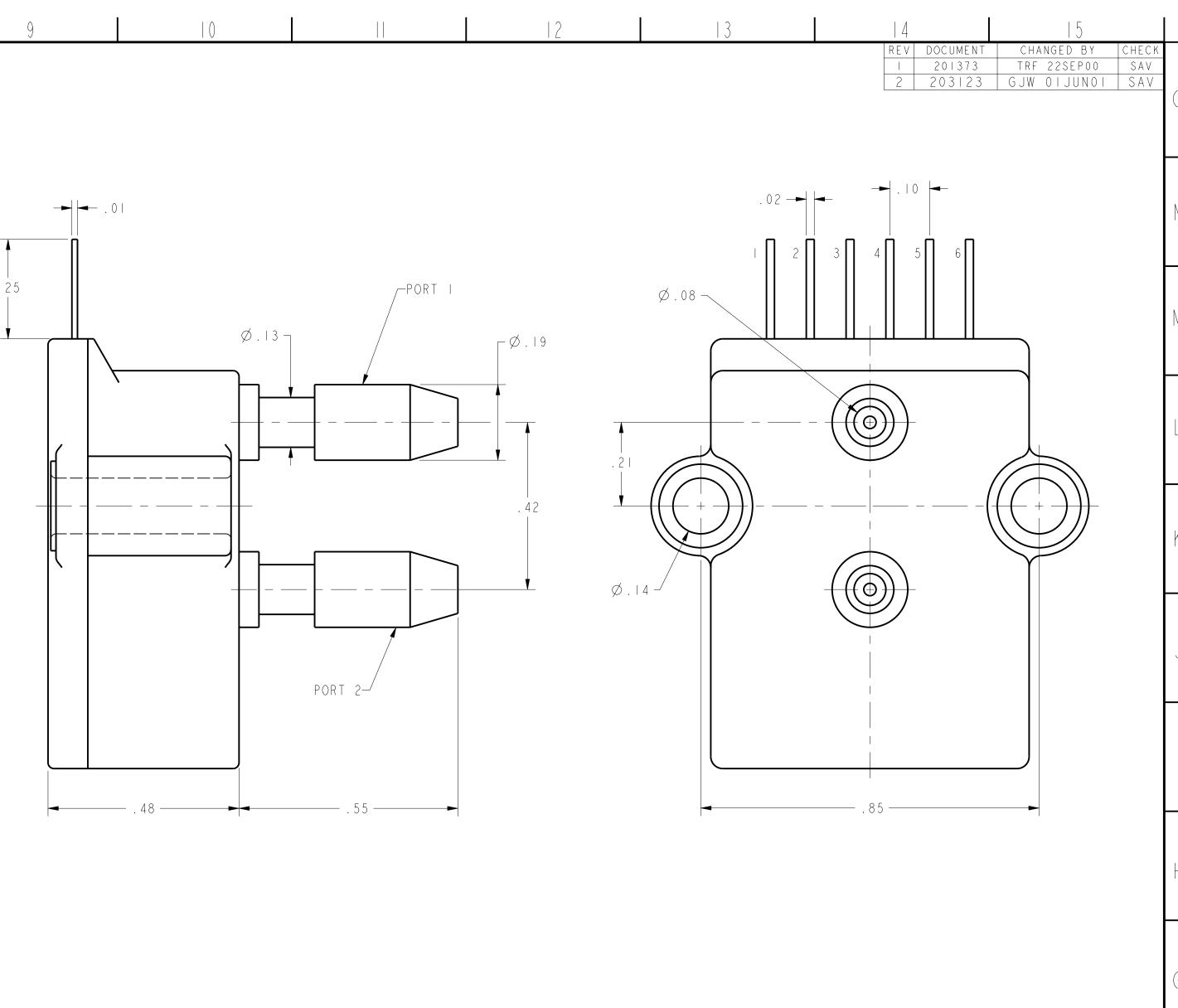
6	7	8	9	0	

	1		
. 0	0.3	mV	PRESSURE
		mV	5 PSID
0.0	20.2	mV	5 PSID
0.0	20.2	mV	5 PSID
8.0	18.2	тV	5 PSID
0.0	61.0	тV	I5 PSID
0.0	91.0	mV	45 PSID
0.0	91.0	mV	90 PSID
0.0	91.0	тV	I80 PSID
0.0	101.0	mV	200 PSID
0.0	91.0	тV	300 PSID
0.0	101.0	тV	300 PSID
. 3	0.5	%SPAN	
5		KΩ	
	0.5	тV	
	0.5	тV	
	Ι.Ο	%SPAN	
	Ι.Ο	%SPAN	
.		%SPAN	

PABILITY, WETTED MATERIALS EAN DRY AIR ONLY)
SILICON DIAPHRAGM, GLASS FILLED NYLON, AND ALUMINA CERAMIC. PORT NOT USED FOR ABSOLUTE DEVICES
FRONTSIDE OF SILICON DIAPHRAGM, SILICONE GEL PASSIVATION, GLASS FILLED NYLON, ALUMINA.

N C T T	INLESS OTHERWISE PECIFIED TOLERANCES ARE: US(inch) SI(mm) IO PLACE X ±.040 ±1 ONE PLACE .X ±.030 ±0,4 WO PLACE .XX ±.015 ±0,15 HREE PLACE .XXX ±.005 ± NGLES ± ± RAW MATERIAL-COMMERCIAL STANDARD
	THIRD ANGLE PROJECTION

 6 5	4 3		-PIN I MARKED BY DOT		
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40 ±I	CHECK	SAV	22SEP00			nu	oney	well				
30 ±0,4 15 ±0,15		AWING COVERS A				Sensi	ng and	l Control				
05 ± ± NDARD			TITLE PRESSURE SENSOR			REV						
CTION		SIONS ARE TO B CTIVE COATINGS			DWG TYPE M	DRAWING NAT		SERIES	CHART	1	2	
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	2		3			4			15			