

Excellent Integrated System Limited

Stocking Distributor

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[Honeywell Sensing and Productivity Solutions](#)
[XCXL004DNC](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

SERIES
UNAMPLIFIED
COMPENSATED AND
CALIBRATED (mV)

PRESSURE RANGE 
004, 010 IN H₂O D
00.3, 01, 05, 15, 30,
60, 100, 150, 240 PSID

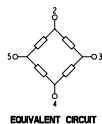
ACCURACY GRADE
C - COMMERCIAL (1.0%)
H - HIGH GRADE (0.50%)

PACKAGE TYPE
N - PLASTIC

PRESSURE REFERENCE
D - DIFFERENTIAL

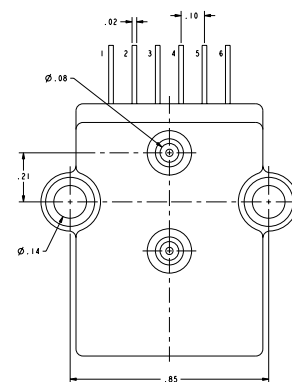
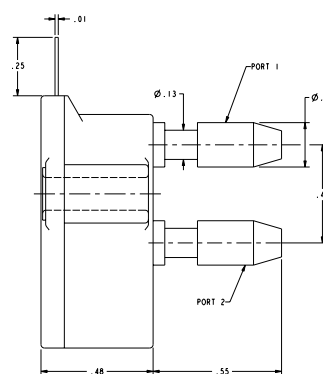
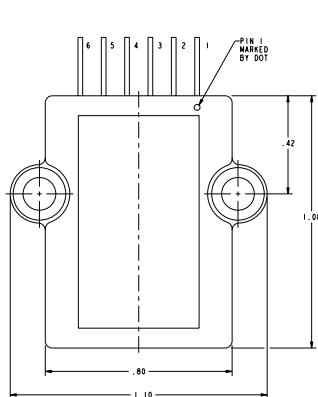
NOTES

- 1 ALL PARAMETERS ARE MEASURED AT 12 VDC EXCITATION. APPLY POSITIVE PRESSURE TO PORT 2 FOR POSITIVE GOING OUTPUT
- 2 SHIFT IS RELATIVE TO 25°C
- 3 LINEARITY IS DETERMINED USING BEST STRAIGHT LINE FIT THROUGH ZERO.
- 4 1/2 FULL SCALE, 1/2 FULL SCALE, HYSTERESIS IS MECHANICAL ONLY
- 5 THE ALGEBRAIC DIFFERENCE BETWEEN OFFSET VOLTAGE AND THE VOLTAGE AT FULL SCALE PRESSURE
- 6 PRESSURE RANGE DEPICTS THE FULL SCALE PRESSURE OF THE SENSOR



PIN OUT	
1	N/C
2	+V EXCITATION
3	+ OUTPUT SIGNAL
4	-V EXCITATION
5	- OUTPUT SIGNAL
6	N/C

C - GRADE LISTINGS
XCXL0040NC
XCXL0100NC
XCX00.30NC
XCX010NC
XCX050NC
XCX1150NC
XCX300NC
XCX600NC
XCX1000NC
XCX1500NC
XCX2400NC
H - GRADE LISTINGS
XCXL0040NH
XCXL0100NH
XCX00.30NH
XCX010NH
XCX050NH
XCX1150NH
XCX300NH
XCX600NH
XCX1000NH
XCX1500NH
XCX2400NH



PARAMETERS Δ	PRESSURE RANGE					C GRADE					H GRADE					PROOF PRESSURE
OFFSET VOLTAGE (0 IN H ₂ O DIFF)	ALL	-1.0	0.0	1.0	mV	-0.3	0.0	0.3	mV							
SPAN (P2P1)	4 IN H ₂ O	18.0	40.0	42.0	mV	19.8	20.0	20.2	mV	5	SPID					
	10 IN H ₂ O	18.0	20.0	21.0	mV	19.8	20.0	20.2	mV	5	SPID					
	0.3 PSID	18.0	20.0	21.0	mV	19.8	20.0	20.2	mV	5	SPID					
	1 PSID	17.0	18.0	19.0	mV	17.8	18.0	18.2	mV	5	SPID					
	5 PSID	57.0	60.0	63.0	mV	59.0	60.0	61.0	mV	15	SPID					
	15 PSID	85.0	90.0	95.0	mV	89.0	90.0	91.0	mV	45	SPID					
	30 PSID	85.0	90.0	95.0	mV	89.0	90.0	91.0	mV	90	SPID					
	60 PSID	85.0	90.0	95.0	mV	89.0	90.0	91.0	mV	180	SPID					
	100 PSID	95.0	100.0	105.0	mV	99.0	100.0	101.0	mV	200	SPID					
	150 PSID	85.0	90.0	95.0	mV	89.0	90.0	91.0	mV	300	SPID					
250 PSID	95.0	100.0	105.0	mV	99.0	100.0	101.0	mV	300	SPID						
COMBINED LINEARITY AND HYSTERESIS Δ	ALL	---	0.5	1.0	ESPAN	---	0.3	0.5	ESPAN							
INPUT RESISTANCE	ALL	---	15	---	K Ω	---	15	---	K Ω							
TEMPERATURE ERROR ON OFFSET (0° TO 50°C) Δ	4 IN H ₂ O	---	---	1.0	mV	---	---	1.0	mV	ALL EXCEPT 4 IN H ₂ O						
TEMPERATURE ERROR ON OFFSET (0° TO 50°C) Δ	10 IN H ₂ O	---	---	1.0	mV	---	---	1.0	mV	ALL EXCEPT 4 IN H ₂ O						
TEMPERATURE ERROR ON SPAN (0° TO 50°C) Δ	4 IN H ₂ O	---	---	2.0	ESPAN	---	---	2.0	ESPAN	ALL EXCEPT 4 IN H ₂ O						
TEMPERATURE ERROR ON SPAN (0° TO 50°C) Δ	10 IN H ₂ O	---	---	2.0	ESPAN	---	---	2.0	ESPAN	ALL EXCEPT 4 IN H ₂ O						

EXCITATION VOLTAGE	ALL	3	12	16	VDC
COMPENSATED TEMPERATURE RANGE	ALL	0	25	70	°C
STORAGE TEMPERATURE RANGE	ALL	-40	...	125	°C
RELATIVE HUMIDITY (NON-CONDENSING)	ALL	0	...	95	ERH
SHOCK (DURATION 11 msec ANY AXIS)	ALL	...	...	10	g
COMMON MODE PRESSURE	ALL	...	...	50	PSIG

MEDIA CAPABILITY, WETTED MATERIALS (APPLY CLEAN DRY AIR ONLY)	
PRESSURE PORT 2	SILICON DIAPHRAGM, GLASS FILLED NYLON, AND ALUMINA CERAMIC. PORT NOT USED FOR ABSOLUTE DEVICES
PRESSURE PORT 1	FRONTSIDE OF SILICON DIAPHRAGM, SILICONE GEL PASSIVATION, GLASS FILLED NYLON, ALUMINA

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE: ☒ INCHES ☐ METERS		DRAWN BY TRF 22SEP00 CHECKED BY SAV 22SEP00		Honeywell Security and Control	
ONE PLACE 1 TWO PLACES 2 THREE PLACES 3 ANGLES 1/16 UNLESS OTHERWISE SPECIFIED	1 2 3 1/16	0.010 0.005 0.0025 0.015	THIS DRAWING CONSIDERS A PROPRIETARY DESIGN AND IS THE PROPERTY OF HONEYWELL SECURITY AND CONTROL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE PERMISSION OF HONEYWELL.		
THIRD ANGLE PROJECTION		TITLE PRESSURE SENSOR		SIZE D DWG TYPE M DRAWING NO. XXX DFC SERIES CHART 1	
		DIMENSIONS ARE TO BE METRIC UNLESS OTHERWISE NOTED AND APPLIED TO THE PART.		SCALE 5:1 SHEET 1 OF 1	
PTC 30		45ME 714.50-190A		1	