









## NOTES

1	REFERENCE CONDITIONS (UNLESS OTHERWISE NOTED): SUPPLY VOLTAGE, $V_s = 15 \text{ Vdc}$ , $T_A = 25^\circ\text{C}$ , COMMON MODE LINE PRESSURE = 0 PSIG. PRESSURE MEASUREMENTS ARE WITH PRESSURE APPLIED TO PORT 2
2	HI/LO SPAN IS THE ALGEBRAIC DIFFERENCE BETWEEN OFFSET OUTPUT AND HI OR LO OUTPUTS
3	SHIFT IS RELATIVE TO $25^\circ\text{C}$
4	SHIFT IS WITHIN THE FIRST HOUR OF EXCITATION APPLIED TO THE DEVICE
5	LINEARITY IS DETERMINED USING BEST STRAIGHT LINE CURVE FIT THROUGH ZERO, 1/2 FULL SCALE, AND FULL SCALE; HYSTERESIS IS MECHANICAL ONLY
6	SPAN IS THE ALGEBRAIC DIFFERENCE OF OUTPUT END POINTS (OUTPUT AT SPECIFIED HI AND LOW OUTPUT LIMITS)
7	TOTAL ERROR INCLUDES OFFSET & SPAN ERRORS, ZERO CALIBRATION, TEMPERATURE EFFECT ON ZERO AND SPAN, NONLINEARITY, HYSTERESIS, REPEATABILITY AND STABILITY OVER COMPENSATED TEMPERATURE RANGE.
8	ACCURACY INCLUDES NONLINEARITY, HYSTERESIS AND REPEATABILITY.

## ELECTRICAL SPECIFICATIONS

PARAMETER 		PRESSURE RANGE (in H <sub>2</sub> O)	MIN	NOM	MAX	UNITS
DIFFERENTIAL	OFFSET VOLTAGE (NULL AT 0 in H <sub>2</sub> O)	ALL		2.250		V
	SPAN (HI SPAN - LO SPAN) 			4.000		
	LO SPAN (P1 > P2) 			-2.000		
	HI SPAN (P2 > P1) 			2.000		
GAGE	OFFSET VOLTAGE (NULL AT 0 in H <sub>2</sub> O)	ALL		0.250		V
	FULL SCALE OUTPUT (P2 > P1)			4.250		
	SPAN (FULL SCALE OUTPUT - OFFSET)			4.000		
						
TOTAL ERROR 		0.05, 01, 02		+/- 2	+/- 3	%SPAN
OFFSET WARM-UP SHIFT 		05, 10, 20, 30		+/- 1	+/- 2	%SPAN
		0.05, 01, 02		20		mV
OFFSET POSITION SENSITIVITY (+/- 1g)		05, 10, 20, 30		20		mV
		0.05, 01, 02		10		mV
		05		5		
		10, 20, 30		1		
OFFSET LONG TERM DRIFT (ONE YEAR)		ALL		100		mV
ACCURACY 		ALL		0.05		%FS

## MAXIMUM RATINGS

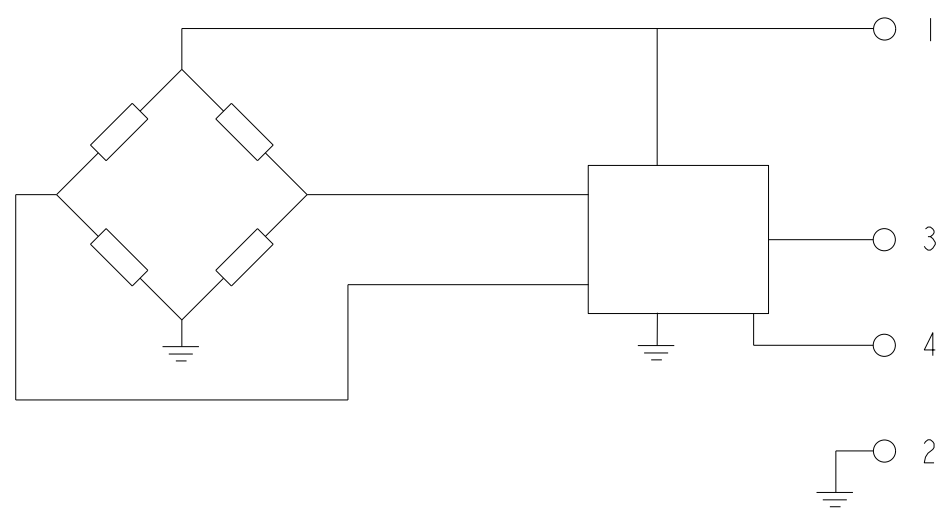
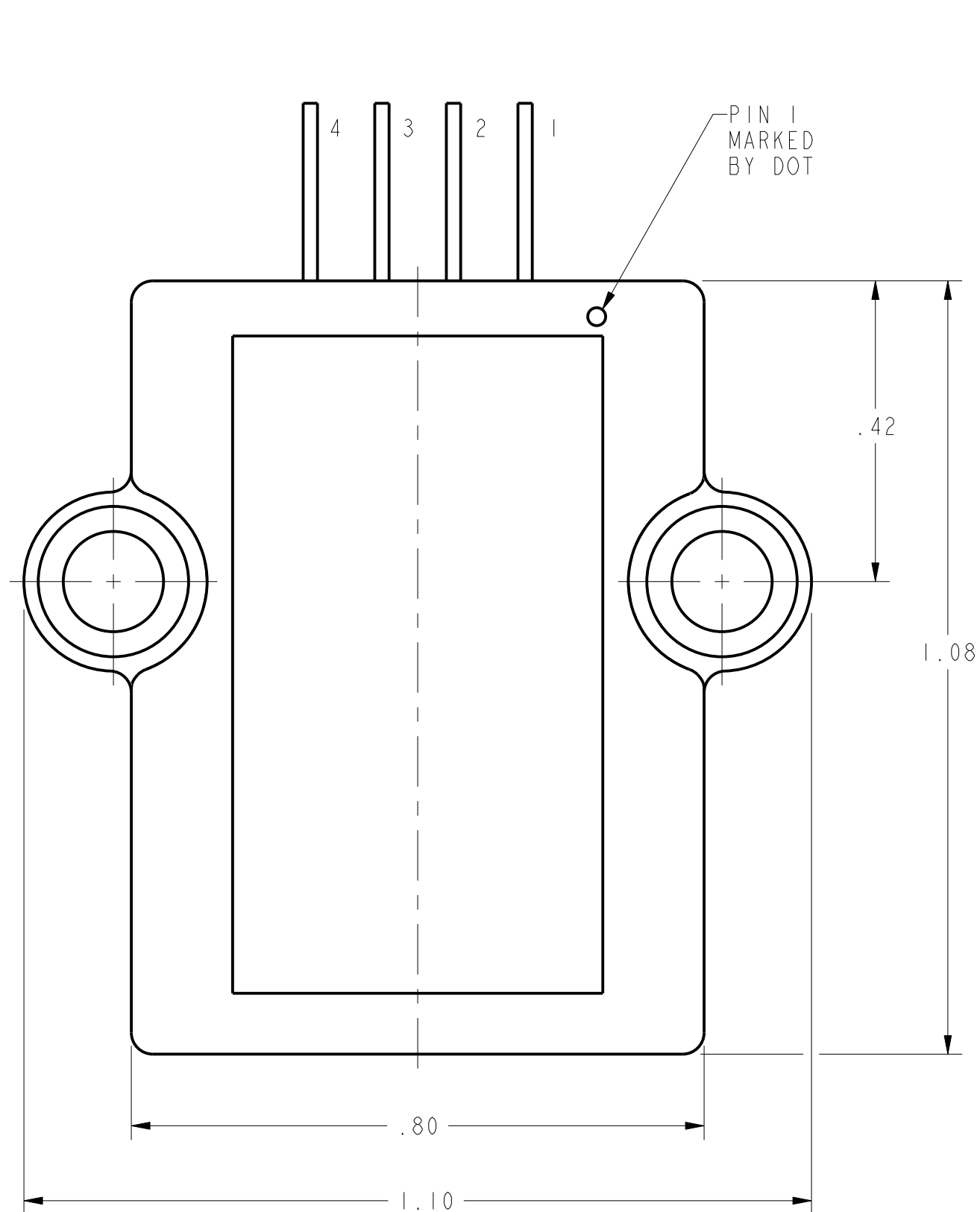
PARAMETER	PRESSURE RANGE (in H <sub>2</sub> O)	MIN	MAX	UNITS
OPERATING TEMPERATURE RANGE		-25	85	°C
STORAGE TEMPERATURE	ALL	-45	125	°C
PROOF PRESSURE (VERIFIED BY TEST)	ALL	5		PSIG
BURST PRESSURE (VERIFIED BY DESIGN)	0.05, 01, 02		100	in H <sub>2</sub> O
	05, 10		150	
	20		300	
	30		450	
EXCITATION VOLTAGE	ALL	3	16	V
COMMON MODE PRESSURE	ALL		50	PSIG

**PRESSURE COMPATIBILITY:**

MEASURES DIFFERENTIAL OR GAGE PRESSURE ONLY WITH POSITIVE PRESSURE TO PORT 2. THERE WILL BE A SMALL OUTPUT VOLTAGE BETWEEN THE ACTUAL OFFSET VOLTAGE AND GROUND PROPORTIONAL TO VACUUM IF APPLIED TO PORT 2

**RATIOMETRIC OUTPUT:**

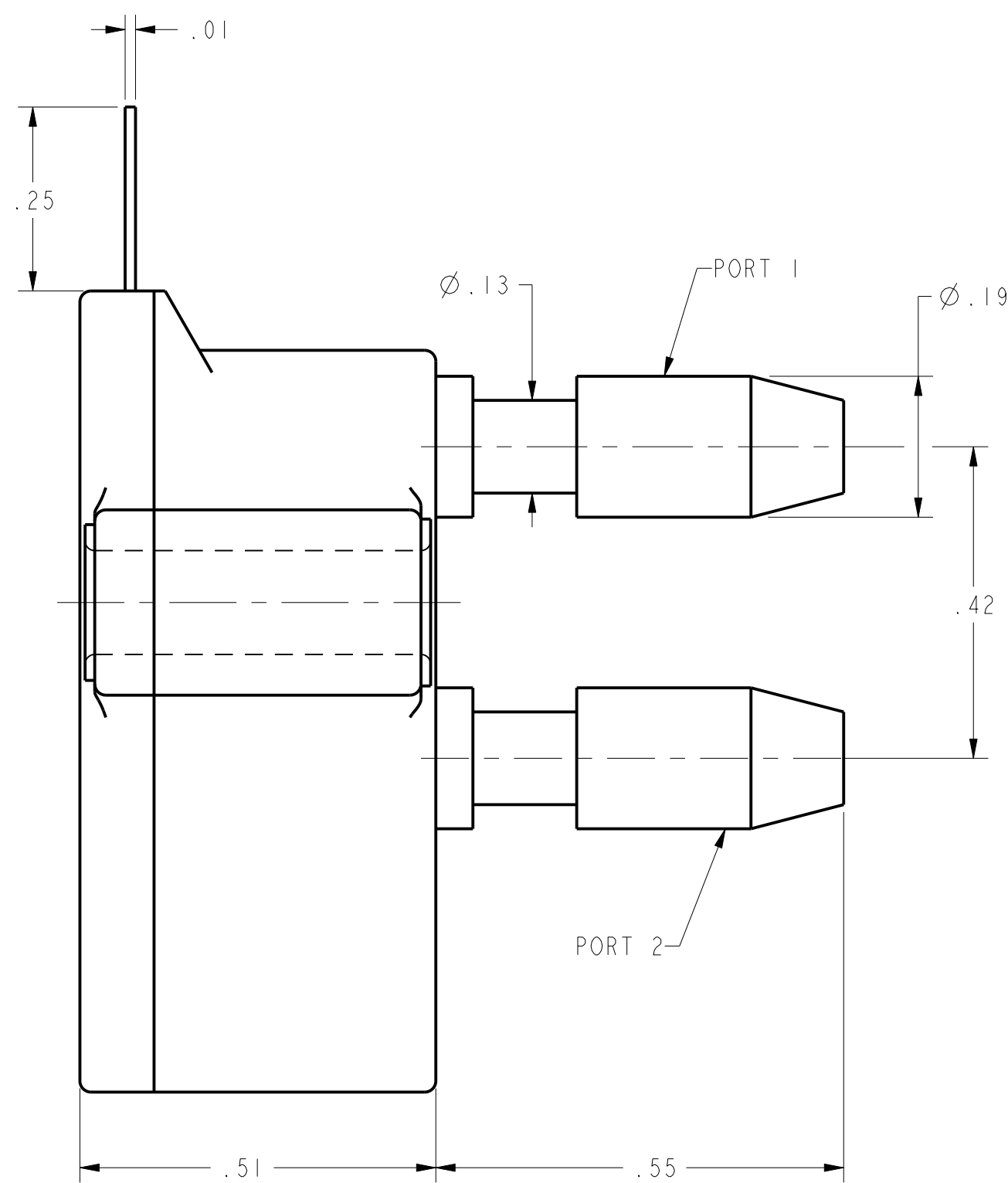
THE OUTPUT VOLTAGE OF THE SENSOR IS NOMINALLY RATIO-METRIC, PROPORTIONAL, TO THE EXCITATION VOLTAGE. FOR THIS MODEL SENSOR ALL SPECIFICATIONS WILL CHANGE PROPORTIONALLY TO ANY CHANGES IN THE EXCITATION VOLTAGE. THE EXCITATION MAY VARY BETWEEN 3 TO 16 VOLTS. ALL SPECIFICATIONS WILL NOMINALLY BE CHANGED BY A RATIO OF  $V_{\text{EXCITATION}}/5.0$  VOLTS. FOR EXAMPLE: IF THE EXCITATION VOLTAGE IS 3.0 VOLTS THEN BOTH THE FULL SCALE OUTPUT VOLTAGE AND THE OFFSET VOLTAGE WOULD BE 3/5TH THE SPECIFIED VALUE



### EQUIVALENT CIRCUIT

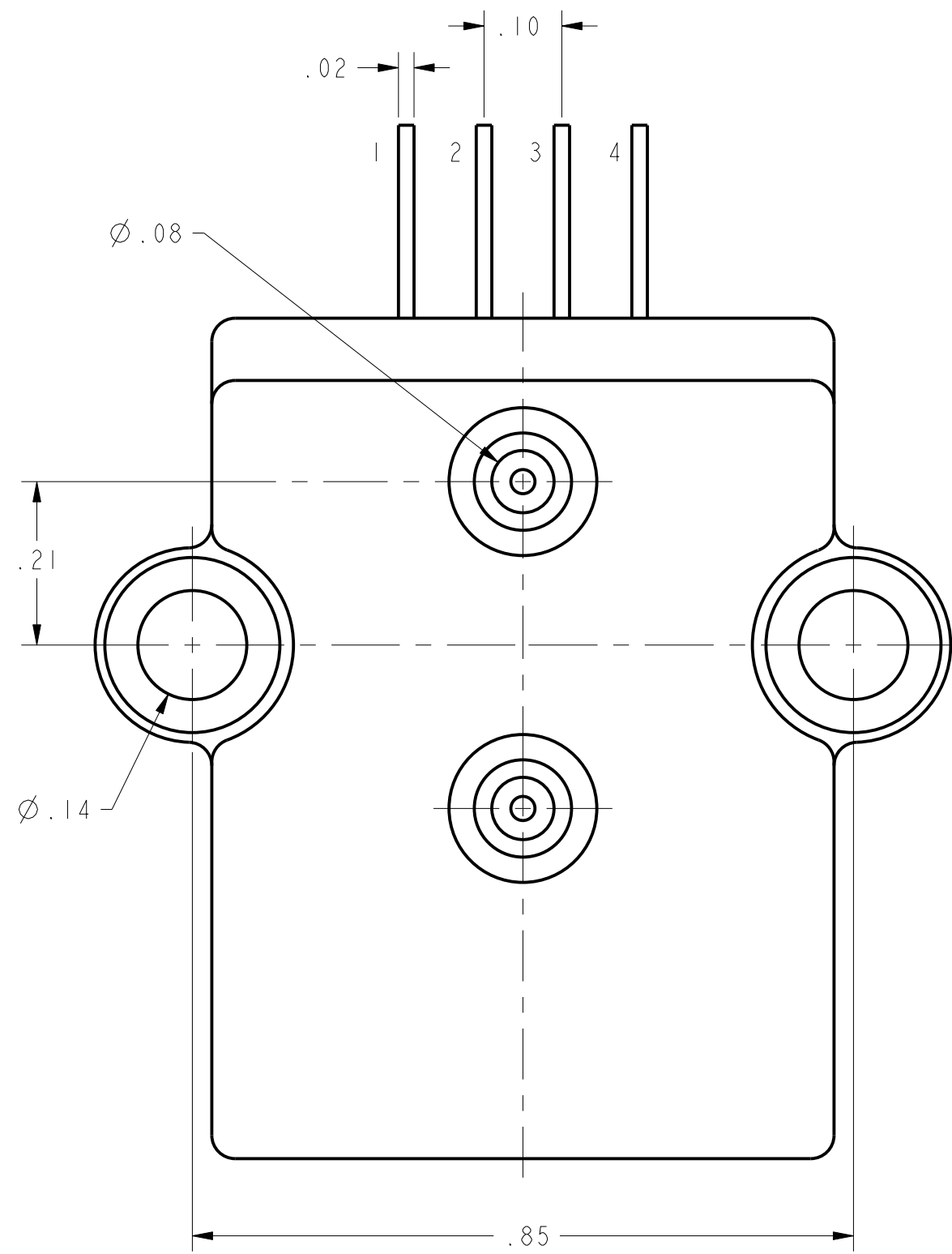
## PIN OUT


1	V <sub>EXCITATION</sub>
2	COMMON
3	V <sub>OUTPUT</sub>
4	NOT FOR CUSTOMER USE. DO NOT CONNECT.



## CATALOG LISTINGS

DC0R5NDR4
DC001NDR4
DC002NDR4
<b>(C)</b>
DC010NDR4
DC020NDR4
<b>(C)</b>
DC0R5NDR4
DC001NDR4
DC002NDR4
DC005NDR4
DC010NDR4
DC020NDR4
DC030NDR4



DESIGN UNITS: INCH	DRAWN	SK	11OCT06	<div style="text-align: center;"> <h1>Honeywell</h1> </div>			
TOLERANCES UNLESS NOTED:	CHECK	CMH	11OCT06				
NO PLACES X ± 0.400	THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE PERMISSION OF HONEYWELL.			<div style="text-align: center;"> <h2>TITLE</h2> <h3>PRESSURE SENSOR</h3> </div>			
ONE PLACE .X ± 0.030							
TWO PLACE .XX ± 0.015							
THREE PLACE .XXX ± 0.005							
FOUR PLACE .XXXX ± 0.0005							
ANGLES X ± 3	INTERPRET PER ASME Y14.5M-1994 OTHER HONEYWELL ENGINEERING STANDARDS MAY APPLY			SIZE	TYPE	DRAWING NAME	REV
THIRD ANGLE PROJECTION				D	I	DC SERIES CHART 3	D
	Pro/ENGINEER 3D			SCALE	5:1	SHEET 1 OF 1	

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