

REV	DOCUMENT	CHANGED BY	CHECK
8	0032662	DDN 31JUL07	CMH

SERIES **CPC**

DESIGNATES PRESSURE

L - LOW PRESSURE (IN H₂O)
- NO DESIGNATION (PSI)

PRESSURE RANGE

04, 10 IN H₂O
0.3, 01, 05, 15, 30 PSI

ACCURACY GRADE

C - COMMERCIAL GRADE
H - HIGH GRADE

PORT OPTION

F - AXIAL
- MODULAR

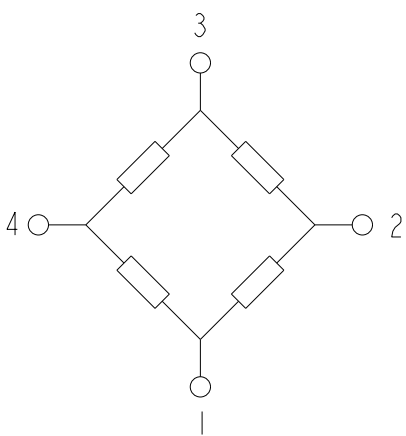
PRESSURE REFERENCE

D - DIFFERENTIAL

CATALOG LISTINGS
CPCL04DFC
CPCL10DFC
CPC0.3DFC
CPC01DFC
CPC05DFC
CPC15DFC
CPC30DFC
CPCL04DC
CPC0.3DFH
⑦
CPC150DFC
CPC01DFH
CPC60DFC

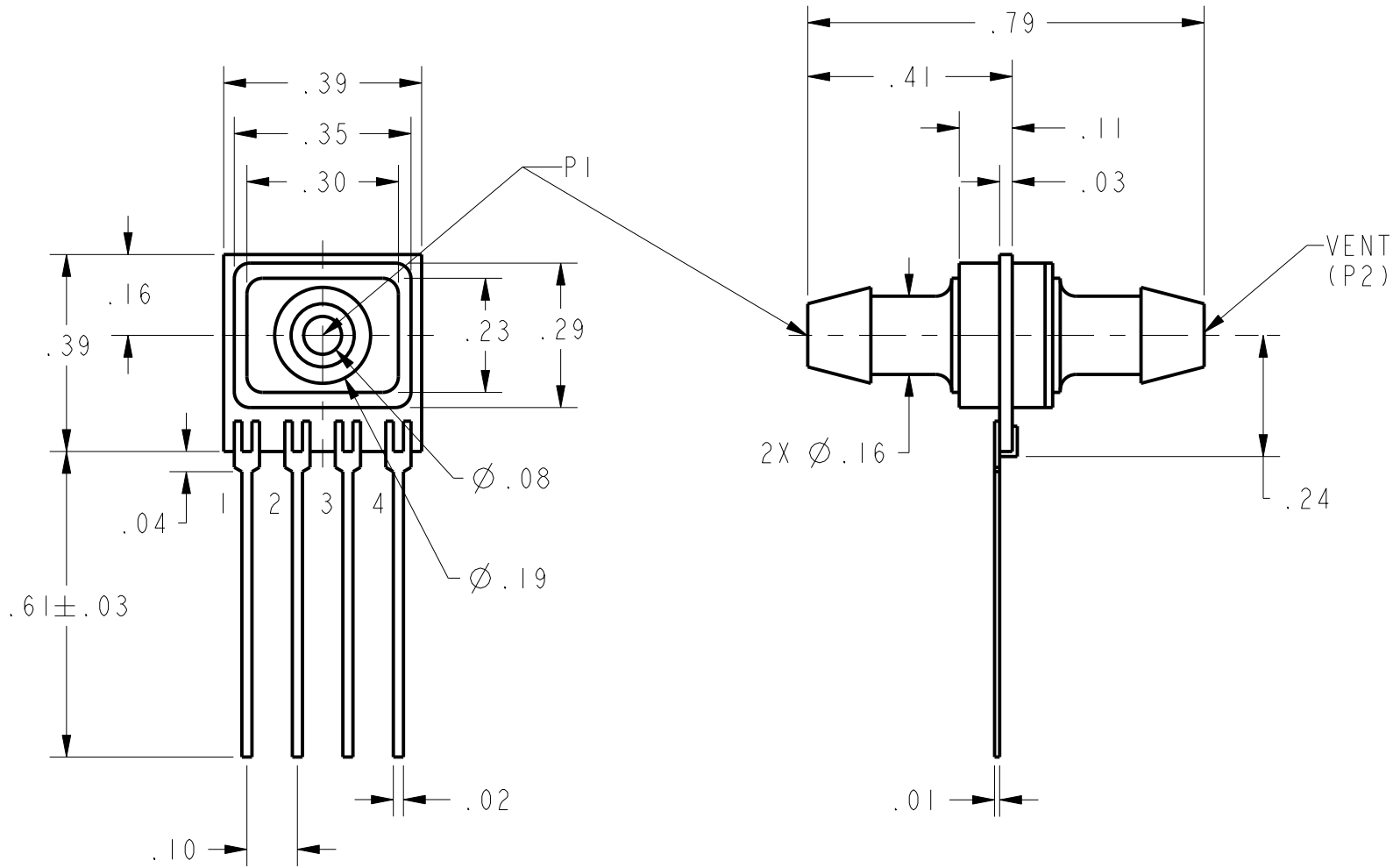
D - STYLE (DIFF)	PERFORMANCE AT 25°C AND 12±0.01 Vdc (UNLESS OTHERWISE STATED)								
	C-GRADE			H- GRADE			UNITS	FULL SCALE PRESSURE PSI	OVER PRESSURE PSI
	MIN	NOM	MAX	MIN	NOM	MAX			
NULL OFFSET (0 PSIG) (L04 LISTING)	-2	0	2	N/A	N/A	N/A	mV		
NULL OFFSET (0 PSIG), ALL LISTINGS EXCEPT L04	-1	0	1	-0.5	0	0.5	mV		
4 IN H ₂ O (P1>P2) (L04 LISTING)	23	25	27	N/A	N/A	N/A	mVdc	4 IN H ₂ O	3
4 IN H ₂ O (P1>P2) (SCDA121 CPCL04GFC)	23	25	27	N/A	N/A	N/A	mVdc	4 IN H ₂ O	5
10 IN H ₂ O (P1>P2) (L10 LISTING)	19	20	21	19.5	20	20.5	mVdc	10 IN H ₂ O	5
0.3 PSI SPAN (P1>P2)	19	20	21	19.5	20	20.5	mVdc	0.3	5
1 PSI SPAN (P1>P2)	17	18	19	17.8	18	18.2	mVdc	1	5
5 PSI SPAN (P1>P2)	57	60	63	59	60	61	mVdc	5	15
15 PSI SPAN (P1>P2)	85	90	95	89	90	91	mVdc	15	45
30 PSI SPAN (P1>P2)	85	90	95	89	90	91	mVdc	30	90
60 PSI SPAN (P1>P2)	85	90	95	89	90	91	mVdc	60	180
100 PSI SPAN (P1>P2)	95	100	105	99	100	101	mVdc	100	250
150 PSI SPAN (P1>P2)	85	90	95	89	90	91	mVdc	150	250
NULL SHIFT OVER TEMPERATURE (0-25, 25-70 °C)  	---	---	±1	---	---	±.5	mV		
SPAN SHIFT OVER TEMPERATURE (0-25, 25-70 °C)  	---	---	±2	---	---	±.1	% SPAN		
COMBINED LINEARITY AND HYSTERESIS 	---	0.25	1	---	0.25	0.5	% SPAN		

GENERAL OPERATING CHARACTERISTICS	ALL PRESSURES			UNITS
	MIN	NOM	MAX	
EXCITATION VOLTAGE	3	12	16	Vdc
SUPPLY CURRENT	---	---	3.5	mA
INPUT RESISTANCE	5	---	---	K-OHMS
OUTPUT RESISTANCE	---	3	---	K-OHMS
OPERATING TEMPERATURE	-25	---	85	°C
STORAGE TEMPERATURE	-40	---	125	°C

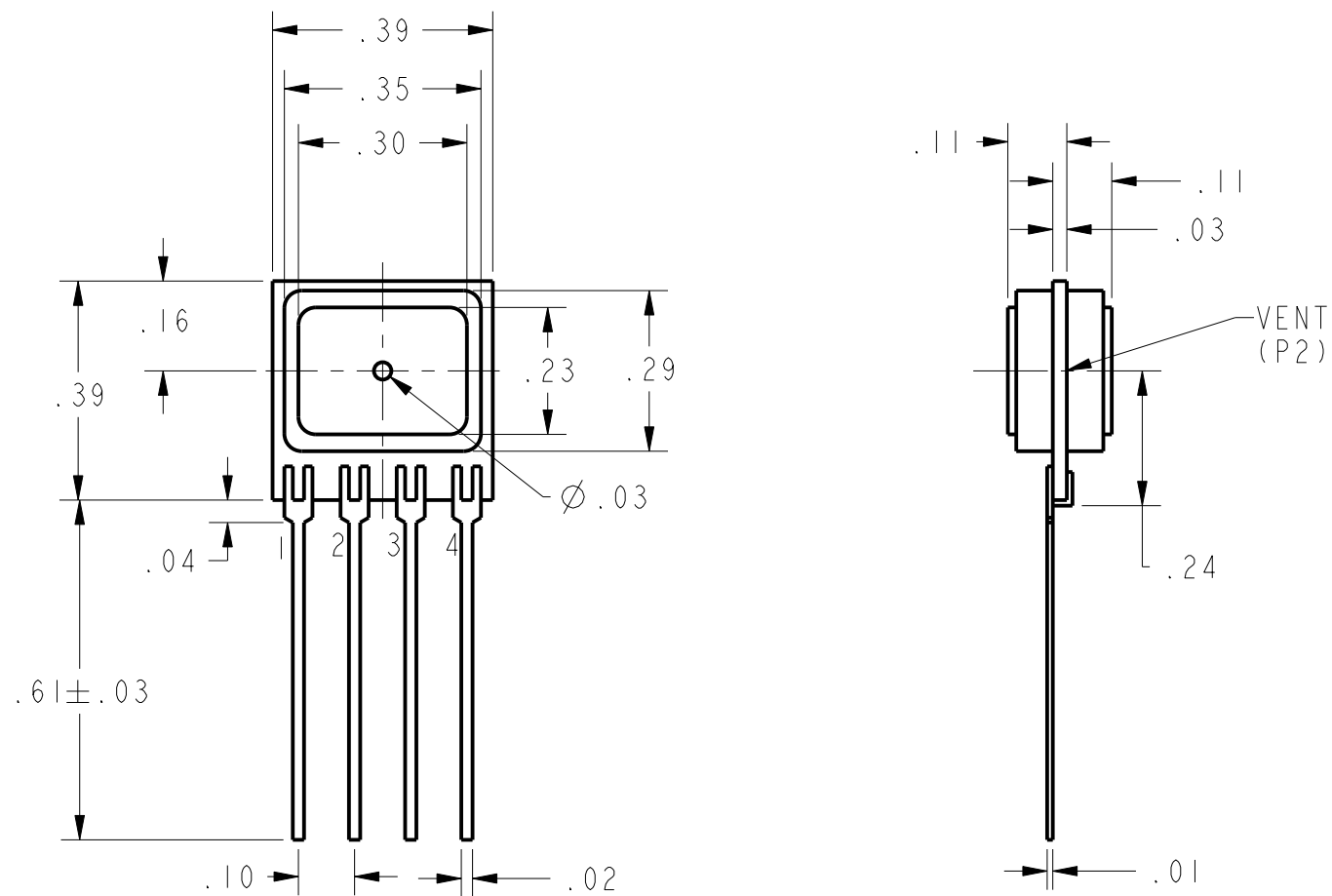


EQUIVALENT CIRCUIT

PIN OUT	
1	-V EXCITATION
2	+ OUTPUT SIGNAL
3	+ V EXCITATION
4	- OUTPUT SIGNAL



DF HOUSING



D HOUSING

NOTES

- 1 - SPAN IS THE ALGEBRAIC DIFFERENCE BETWEEN THE OUPUT AT FULL SCALE PRESSURE AND THE OFFSET OUTPUT
-  TEMPERATURE ERROR IS CALCULATED WITH RESPECT TO 25°C
-  LINEARITY IS MEASURED AT 1/2 FULL SCALE PRESSURE USING BEST STRAIGHT LINE FIT
- 4 - THE OUTPUT OF THE SENSOR IS PROPORTIONAL, RATIOMETRIC, TO THE EXCITATION VOLTAGE. THE EXCITATION MAY VARY BETWEEN 3 TO 16 Vdc. ALL SPECIFICATIONS WILL NOMINALLY BE CHANGED BY THE RATIO OF V_{EXCITATION}/12.0 Vdc
- 5 - LIMIT SOLDERING TO 315°C FOR LESS THAN 10 SECONDS
- 6 - PIN 1 IS IDENTIFIED BY THE DOT ON THE HOUSING AS SHOWN ON THE VARIOUS DRAWINGS
- 7 - APPLY PRESSURE TO PORT INDICATED ON THE DRAWINGS SHOWN
- 8 - SENSORS ARE OPERATIONAL OVER VACUUM PRESSURE RANGE
- 9 - INPUT MEDIA RESTRICTED TO DRY GASES ONLY
-  THE L04 LISTING HAS A TEMPERATURE SHIFT RANGE FROM 0 TO 25°C AND 25 TO 50°C

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: ☒ US (inch) CUSTOMARY ☐ SI (mm) METRIC			DRAWN	TSM	6FEB03	Honeywell			
NO PLACE .X ±.040 ±1 ONE PLACE .X ±.030 ±0.4 TWO PLACE .XX ±.015 ±0.15 THREE PLACE .XXX ±.005 ± ANGLES ± ± RAW MATERIAL-COMMERCIAL STANDARD			CHECK	CMH	6FEB03				
THIRD ANGLE PROJECTION 			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. DIMENSIONS ARE TO BE MET BEFORE PROTECTIVE COATINGS ARE APPLIED			TITLE			
						PRESSURE SENSOR			
			SIZE	DWG TYPE	DRAWING NAME			REV	
			C	I	CPC DIFF SERIES CHART 1			8	
			3D PTC	ASME Y14.5M-1994		SCALE	3:1	WEIGHT	SHEET 1 OF 1

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