


REV	DOCUMENT	CHANGED BY	CHECK
A	0008041	DVM 20OCT04	AK

HONEYWELL  
PART NUMBER

**GAGE/DIP PACKAGE**

1-POWER SUPPLY(+)	4-POWER SUPPLY(-)
2-OUTPUT(+)	5-OUTPUT(-)
3-POWER SUPPLY(-)	6-NO CONNECTION

**PART NUMBER DESCRIPTION**

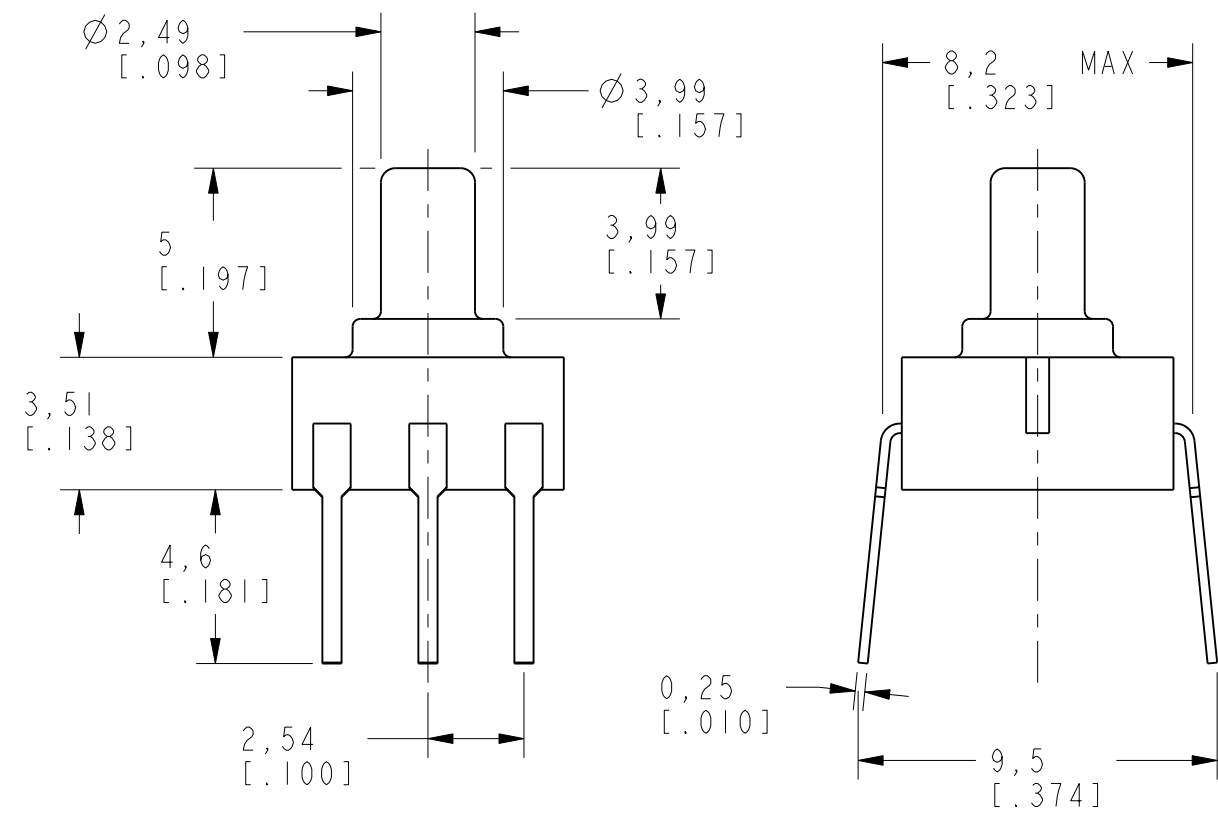
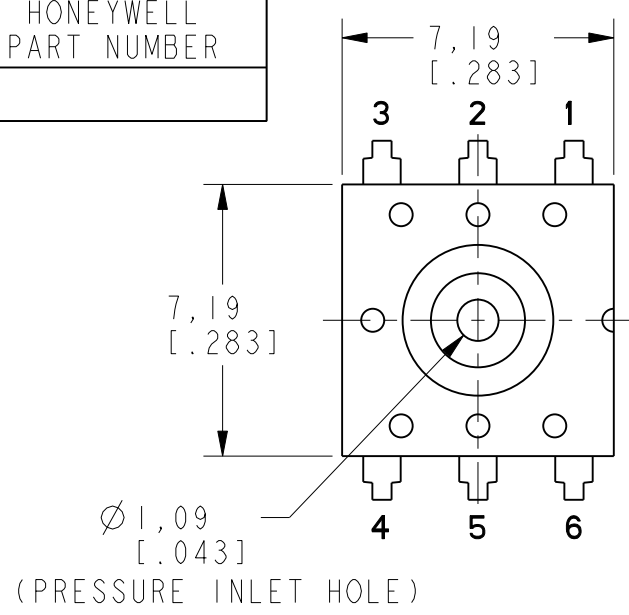
HPX  PACKAGE - **D** (DIP)  
STYLE - **S** (SOIC)  
MEASUREMENT TYPE - **A** (ABSOLUTE)  
- **G** (GAGE)  
PRESSURE RANGE - **005** (5.8 PSI)  
- **015** (15 PSI)  
- **030** (30 PSI)  
- **050** (50 PSI)  
- **100** (100 PSI)

**GENERAL SPECIFICATIONS**

	MIN	TYP	MAX	UNITS
EXCITATION		3.0	10.0	VDC
INPUT IMPEDANCE	4K	5K	6K	OHMS
OUTPUT IMPEDANCE	4K	5K	6K	OHMS

**ENVIRONMENTAL SPECIFICATIONS**

OPERATING (DIP PACKAGE)	-20°C TO 100°C [-4°F TO 212°F]
OPERATING (SOIC PACKAGE)	-40°C TO 125°C [-40°F TO 257°F]
STORAGE	-40°C TO 125°C [-40°F TO 257°F]
VIBRATION	10g AT 20Hz to 2000Hz
WEIGHT	<1 GRAM
LIFE (HPX005GD)	100K CYCLES
LIFE (ALL OTHERS)	1 MILLION CYCLES MINIMUM
LEAD SOLDER TEMPERATURE (DIP PACKAGE)	DIP SOLDER BATH-MAX 250°C (482°F) FOR 5 SECONDS
SMT SOLDER (SOIC PACKAGE)	Sn 96.5 Ag 3.5 NO CLEAN FLUX Sn63 Pb 37 NO CLEAN FLUX
SMT REFLOW PROFILE (SOIC PACKAGE)	MAX PEAK TEMPERATURE OF 250°C (482°F) FOR 10 SECONDS



**ABSOLUTE/SOIC PACKAGE**

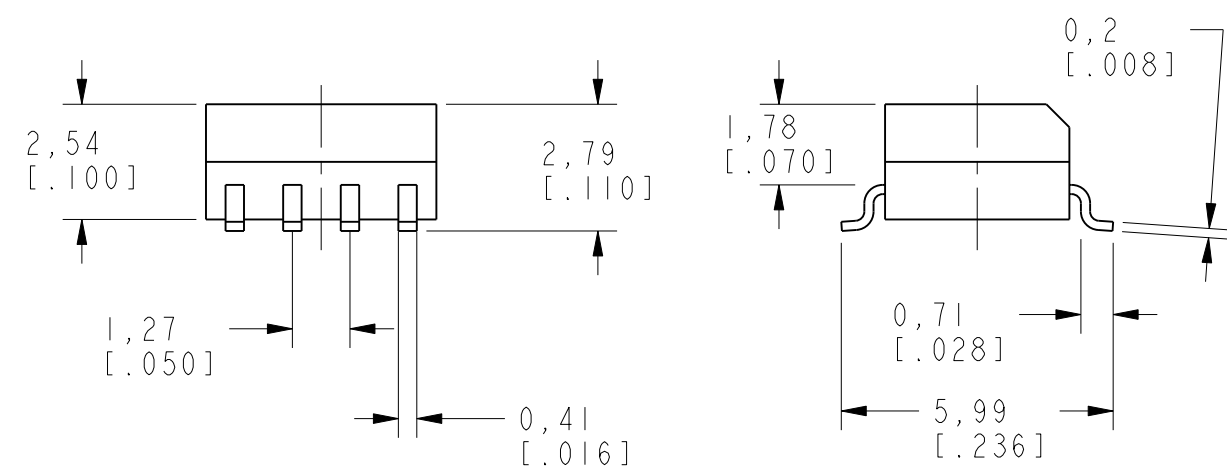
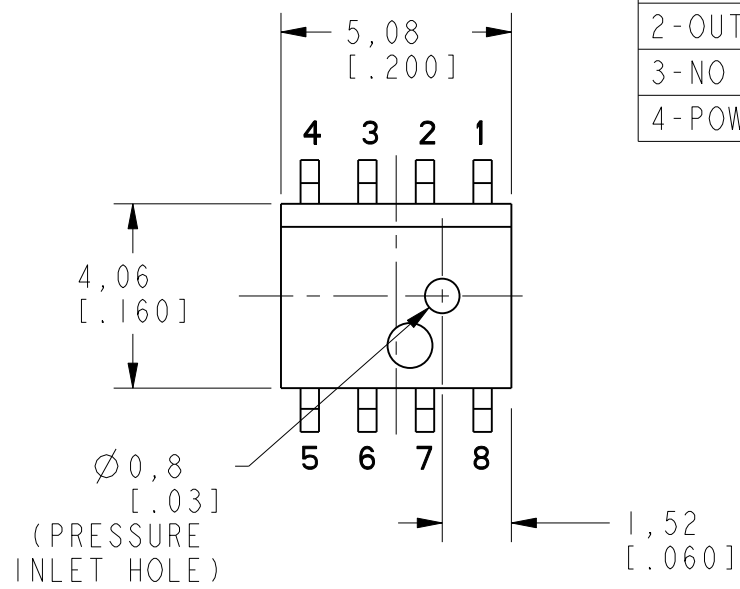
1-NO CONNECTION	5-POWER SUPPLY(-)
2-OUTPUT(+)	6-OUTPUT(-)
3-NO CONNECTION	7-NO CONNECTION
4-POWER SUPPLY(-)	8-POWER SUPPLY(+)

**PERFORMANCE CHARACTERISTICS**

CATALOG LISTING	PRESSURE RANGE	LINEARITY % SPAN	HYSTERESIS % SPAN	NULL OFFSET (mV)	SPAN (mV)	OVER-PRESSURE (PSI MAX)	RESPONSE TIME (mSEC) MAX	TEMPERATURE COEFFICIENT OF NULL OFFSET (%SPAN/°C)	TEMPERATURE COEFFICIENT OF SPAN (%SPAN/°C)
HPX005GD	5.8 PSI (300mm Hg)	±0.5	±0.5	±20	40±12	15	1.0	±0.08	-0.1 TO -0.3
HPX015GD	15 PSI	±0.3	±0.3	±30	42±12	45	1.0	±0.08	-0.1 TO -0.3
HPX030GD	30 PSI	±0.3	±0.3	±30	60±20	90	1.0	±0.08	-0.1 TO -0.3
HPX050GD	50 PSI	±0.3	±0.3	±30	60±20	150	1.0	±0.08	-0.1 TO -0.3
HPX100GD	100 PSI	±0.3	±0.3	±30	60±20	300	1.0	±0.08	-0.1 TO -0.3
HPX015AS	15 PSI	±0.3	±0.3	±30	87±18	45	1.0	±0.08	-0.1 TO -0.3
HPX030AS	30 PSI	±0.3	±0.3	±30	60±20	90	1.0	±0.08	-0.1 TO -0.3
HPX050AS	50 PSI	±0.3	±0.3	±30	60±20	150	1.0	±0.08	-0.1 TO -0.3
HPX100AS	100 PSI	±0.3	±0.3	±30	60±20	300	1.0	±0.08	-0.1 TO -0.3

**NOTES**

- 1 - REFERENCE CONDITIONS (UNLESS OTHERWISE NOTED) : SUPPLY VOLTAGE  $V_s = 3.0$  Vdc  
 $T_a = 25^\circ\text{C}$  [77°F]. OUTPUT IS RATIO METRIC WITHIN THE SUPPLY VOLTAGE RANGE ( $V_s$ )
- 2 - TEMPERATURE COEFFICIENTS ARE TYPICAL VALUES BETWEEN  $-20^\circ\text{C}$  AND  $+100^\circ\text{C}$
- 3 - SPAN IS THE ALGEBRAIC DIFFERENCE BETWEEN THE OUTPUT VOLTAGE AT THE SPECIFIED PRESSURE AND THE OUTPUT AT ZERO PRESSURE. SPAN IS RATIO METRIC TO THE SUPPLY VOLTAGE
- 4 - RESPONSE TIME FOR 0 PSI TO FULL-SCALE PRESSURE STEP CHANGE, 10% TO 90% RISE TIME.



DESIGN UNITS: INCH  
TOLERANCES UNLESS NOTED:

NO PLACE	X	±	0.400
ONE PLACE	.X	±	0.030
TWO PLACE	.XX	±	0.015
THREE PLACE	.XXX	±	0.005
FOUR PLACE	.XXXX	±	0.0005
ANGLES	X	±	3

DRAWN	D J S	20SEP04
CHECK	-	-
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.		
INTERPRET PER ASME Y14.5M-1994 OTHER HONEYWELL ENGINEERING STANDARDS MAY APPLY		
Pro/ENGINEER	3D	SCALE NONE

<b>Honeywell</b>			
<b>PRESSURE SENSOR</b>			
SIZE	TYPE	DRAWING NAME	REV
<b>C</b>	<b>I</b>	<b>HPX SERIES CHART 1</b>	<b>A</b>
SHEET		1 OF 1	