

# HONEYWELL

## 26PCAFS2G54

*See full Datasheet below...*

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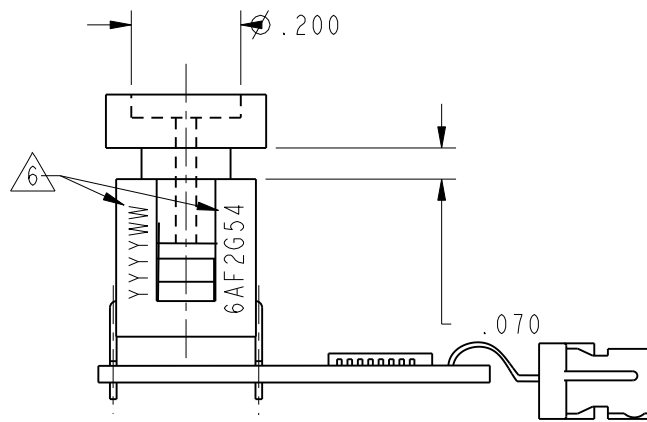
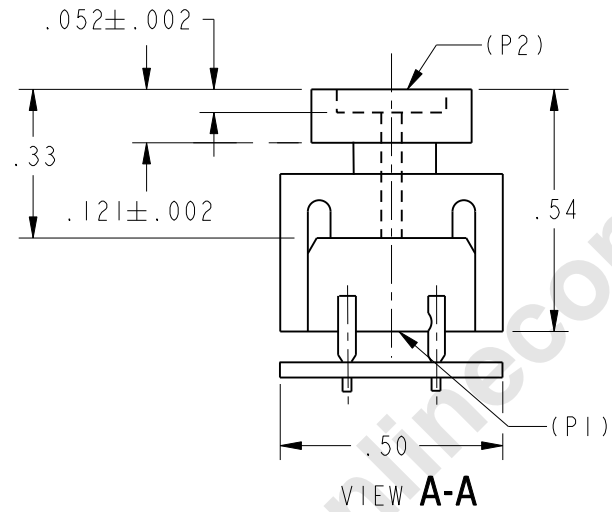
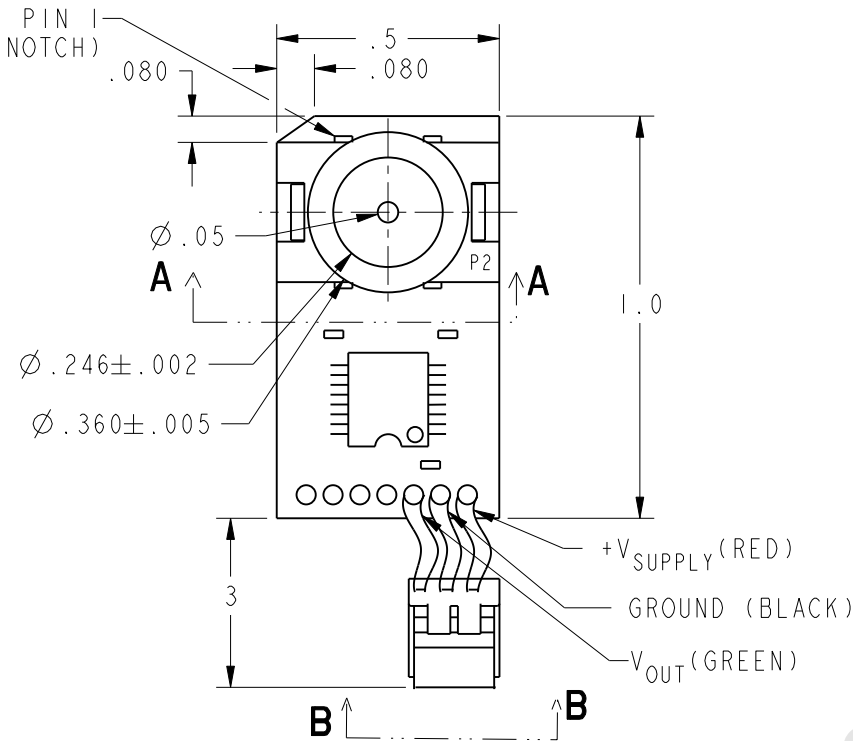
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HONEYWELL  
PART NUMBER  
26PCAFS2G54

REV	DOCUMENT	CHANGED BY	CHECK
C	0041506	KVS 14JUL08	ASD

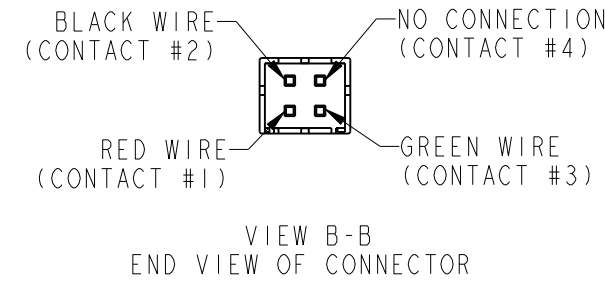
PIN	DESCRIPTION
1	+ Vsupply
2	GROUND
3	Vout
4	NO CONNECTION

PIN 1  
(IDENTIFIED WITH NOTCH)



SENSOR SPECIFICATIONS

GENERAL OPERATING CHARACTERISTICS <sup>(5)</sup> (ELECTRICAL PERFORMANCE AT 5.00 ±0.01 VDC EXCITATION, 25°C)				
PARAMETER	MIN	NOM	MAX	UNITS
SPAN -1 TO +1 PSIG <sup>(1)</sup>	--	4.000	--	VDC
NULL OFFSET	2.380	2.500	2.620	VDC
OUTPUT AT -1 PSIG	0.380	0.500	0.620	VDC
OUTPUT AT +1 PSIG	4.380	4.500	4.620	VDC
ACCURACY <sup>(2)</sup>	--	--	3.0	%SPAN
OVERPRESSURE (P2>P1; P1>P2)	--	--	20	PSI
RESPONSE TIME <sup>(7)</sup>			7	ms
VOLTAGE SUPPLY (Vs)	2.7	5.0	5.5	Vdc
TEMPERATURE RANGES				
STORAGE	-55° TO +100°C (-67° TO 212°F)			
OPERATE	0 TO 50°C (-32° TO 122°F)			
COMPENSATED	20 TO 40°C (68° TO 104°F)			



NOTES

- SPAN IS DEFINED AS THE DIFFERENCE BETWEEN SENSOR OUTPUTS AT 1psi (MAXIMUM POSITIVE PRESSURE) AND -1psi (MAXIMUM NEGATIVE PRESSURE).
  - ACCURACY IS THE COMBINED ERRORS FROM OFFSET AND SPAN CALIBRATION, LINEARITY, PRESSURE HYSTERESIS AND TEMPERATURE EFFECTS OVER THE COMPENSATED TEMPERATURE RANGE. LINEARITY IS THE MEASURED DEVIATION FROM THE BEST FIT STRAIGHT LINE. HYSTERESIS IS THE MAXIMUM OUTPUT DIFFERENCE AT ANY POINT WITHIN THE OPERATING PRESSURE RANGE FOR INCREASING AND DECREASING PRESSURE. CALIBRATION ERRORS INCLUDE THE DEVIATION OF OFFSET AND FULL SCALE FROM NOMINAL VALUE.
  - INPUT MEDIA LIMITED ONLY TO THOSE MATERIALS THAT WILL NOT ATTACK SILICON, THE HOUSING MATERIAL OR SEAL MATERIAL.
  - SENSOR IS OPERATIONAL OVER VACUUM PRESSURE RANGE.
  - REFERENCE CONDITIONS (UNLESS OTHERWISE NOTED) SUPPLY VOLTAGE,  $V_s = 5.0 \pm 0.01$  VDC,  $T_a = 25^\circ$  C. OUTPUT IS RATIO METRIC WITHIN THE SUPPLY VOLTAGE RANGE ( $V_s$ ).
- <sup>(6)</sup> - PART BRANDED WITH DATE CODE (YYYYWW) AND 6AF2G54 ALTERNATE FORMAT OF CATALOG LISTING BRAND IS THE ENTIRE CATALOG LISTING

<sup>(7)</sup> - RESPONSE TIME IS DEFINED AS THE TIME IT TAKES FOR A DEVICE TO RESPOND TO AN INPUT SIGNAL. THE SUM OF THE SENSOR, AMPLIFIER, AND OUTPUT RESPONSE IS THE TOTAL RESPONSE TIME. IT IS MEASURED AS THE TIME TAKEN FOR THE OUTPUT OF THE SYSTEM TO VARY FROM 10% TO 90% FULL SCALE OF THE STEP INPUT. THIS IS NOT THE TIME CONSTANT OF THE SENSOR.

DESIGN UNITS: INCH	DRAWN	SK	19JUL07	<b>Honeywell</b>			
TOLERANCES UNLESS NOTED:	CHECK	CMH	19JUL07				
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.			TITLE			
ONE PLACE .X ± 0.030				AMPLIFIED PRESSURE SENSOR			
TWO PLACE .XX ± 0.015				SIZE	TYPE	DRAWING NAME	REV
THREE PLACE .XXX ± 0.005				<b>B</b>	<b>I</b>	<b>26PCAFS2G54</b>	<b>C</b>
FOUR PLACE .XXXX ± 0.0005	INTERPRET PER ASME Y14.5M-1994 OTHER HONEYWELL ENGINEERING STANDARDS MAY APPLY			SCALE	-	SHEET 1 OF 1	
ANGLES X ± 3°	THIRD ANGLE PROJECTION			Pro/ENGINEER	2D		