

# Honeywell Sensing and Control



# 26PCCFA2G



Actual product appearance may vary.

#### Features

• Lowest priced sensor with temperature compensation and calibration

• Variety of gage pressure port configurations - easily and quickly modified for your special needs

Operable after exposure to frozen
conditions

Choice of termination for gage
 sensors

- · Calibrated null and span
- Temperature compensated
- Provides interchangeability

• Can be used to measure vacuum or positive pressure

Pressure Sensors: Measurement Type: Gage, Vacuum Gage; Signal Conditioning: Unamplified; Pressure Range: ± 15.0 psi; Port Style: Straight

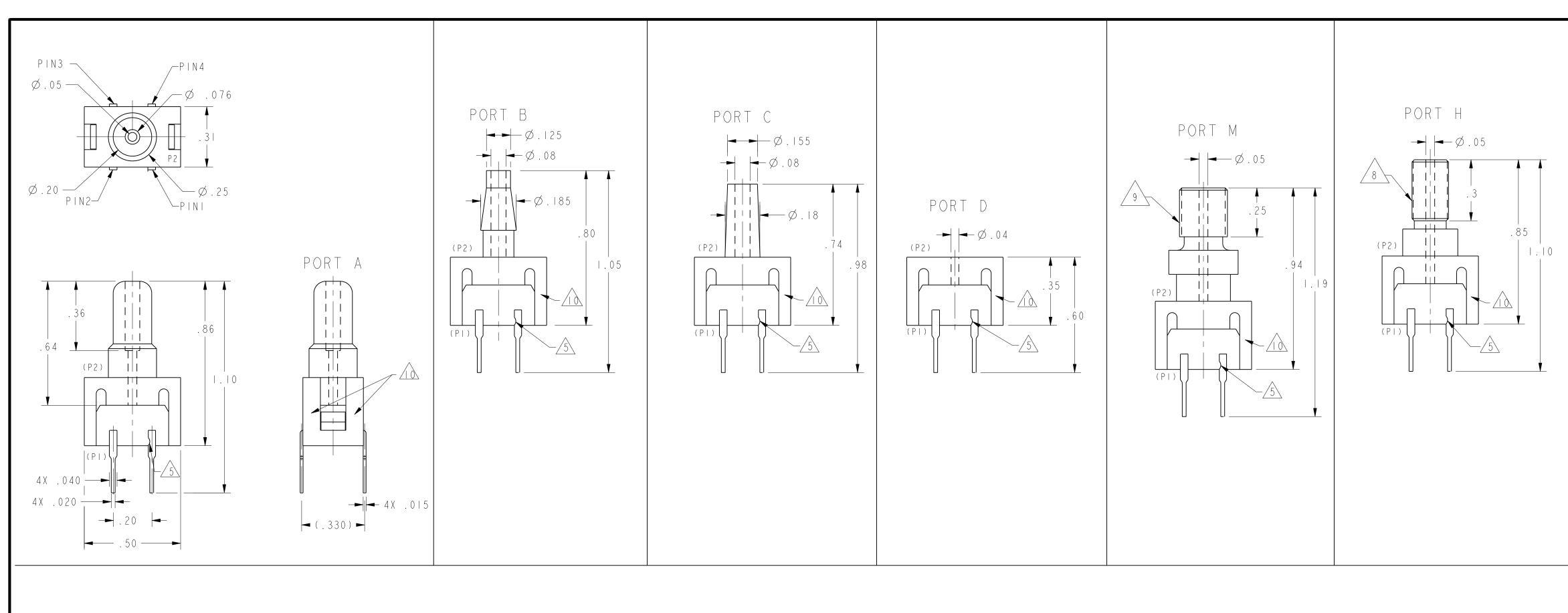
## Potential Applications Medical

- Oxygen and nitrogen gas distribution in hospitals
- Dental chairs
- Environmental
- Water control valves
- Instrumentation
- Irrigation equipment
- Filter monitoring equipment
- Industrial Instrumentation
- Robotics
- Pressure valves
- Leak detection
- Air compressors
- **Analytical Instrumentation**
- Gas chromatography

## Description

The factory calibrated 26PC Series miniature pressure sensors provide reliable gage pressure sensing performance in a compact package. The sensor features a proven sensing technology that utilizes a specialized piezoresistive micro-machined sensing element which allows part interchangeability, high performance, reliability, and accuracy. The low power, non-amplified, non-compensated Wheatstone bridge circuit design provides inherently stable mV outputs over 1.0 psi through 250 psi sensing ranges.

Product Specifications									
Measurement Type	Differential, Gage								
Signal Conditioning	Unamplified								
Pressure Range	± 15.0 psi								
Maximum Overpressure	45.0 psi								
Supply Voltage	10.0 Vdc typ., 16.0 Vdc max.								
Compensated	Yes								
Output Calibration	Yes								
Response Time	1 ms max.								
Termination	PCB; 2 x 2								
Port Style	Straight								
Package Style	Honeywell - 20PC								
Linearity	0.25% span typ., 0.50% span max.								
Typical Sensitivity	6.67 mV/psi								
Full Scale Span	100 mV typ.								
Null Offset	0 mV typ.								
Null Shift over Temperature	$\pm$ 0.5 mV typ., $\pm$ 1.0 mV max.								
Span Shift Over Temperature	± 1.0% span typ., ± 1.5% span max.								
Repeatability & Hysteresis Error	± 0.20 % span typ.								
Input Resistance	5.5 kOhm min., 7.5 kOhm typ., 11.5 kOhm max.								
Output Resistance	1.5 kOhm min., 2.5 kOhm typ., 3.0 kOhm max.								
Shock	Qualification tested to 150 g								
Vibration	MIL-STD-202 Method 213 (150 g half sine 11 ms)								
Weight	2 g [0.07 oz]								
Operating Temperature Range	-40 °C to 85 °C [-40 °F to 185 °F]								
Compensated Temperature Range	0 °C to 50 °C [32 °F to 122 °F]								
Storage Temperature Range	-55 °C to 100 °C [-67 °F to 212 °F]								
Media Compatibility	Limited to media which will not attack polyetherimide, silicon, flourosilicone, silicone, EPDM and neoprene seals.								
UNSPSC Code	411121								
UNSPSC Commodity	411121 Transducers								
Availability	Global								
Series Name	26PC								

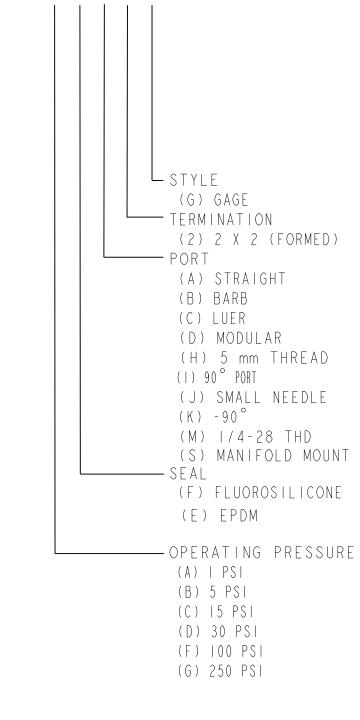


GENERAL OPERATING CHARACTERISTICS																				
(ELECTRICAL PERFORMANCE AT 10.00 $\pm$ 0.01 VDC EXCITATION, 25°C)																				
OPERATING PRESSURE RANGE (PSIG)	0	-	(A)	0	- 5	(B)	0	- 15	(C)	0	- 30	(D)		0 -	100	(F)	0 -	250	(G)	
	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	UNITS	MIN	NOM	MAX	MIN	NOM	МАХ	UNITS
SPAN (P2>PI)	4.7	16.7	18.7	47	50	53	97	100	103	97	100	103	mV	95	100	105	4 3	150	157	тV
NULL OFFSET	-1.5		+ .5	-1.5	0	+1.5	-1.5	0	+ .5	-   . 5	0	+ .5	тV	-2.0		+2.0	-2.0		+2.0	тV
		ΤΥΡ	МАХ		ΤΥΡ	МАХ			МАХ		TYP	МАХ	UNITS			МАХ		TYP	МАХ	UNITS
LINEARITY (BFSL, P2>PI)		0.25	0.5		0.4	0.5		0.25				0.2	%SPAN			0.6		0.5	0.7	%SPAN
NULL SHIFT (0 TO 25°C, 25 TO 50°C) 2			$5\pm1.0$			$\pm 1.0$			$\pm 1.0$		±0.75		mV			$\pm 2.0$		$\pm 1.0$	±2.0	тV
SPAN SHIFT (0 TO 25°C, 25 TO 50°C) P2>P1/2	1		$) \pm 2.0$	)		$\pm 1.5$			$5 \pm 1.5$		±0.75	$\pm 1.5$	%SPAN			$\pm 1.5$		$\pm 0.5$	$\pm$ 1.5	%SPAN
REPEATABILITY AND HYSTERESIS		$\pm 0.5$			$\pm$ 0.2			± 0.2			±.2		%SPAN		± 0.2			$\pm 0.2$		%SPAN
OVERPRESSURE (P2>P1; P1>P2)			20			20			45			60	PSI			200		500		PSI
ALL PRESSURE RANGES	MIN	NOM	MAX	JNITS																
EXCITATION VOLTAGE		10	16	VDC																
INPUT RESISTANCE	5.5K	7.5K	II.5K	OHMS																
OUTPUT RESISTANCE	I.5K	2.5K	3.0K	OHMS																
RESPONSE TIME			Ι.Ο	m s																
TENDEDATUDE DANAEA																				
TEMPERATURE RANGES																				
STORAGE -55°C TO +100																				
OPERATE -40°C TO +85																				
COMPENSATED 0 TO +50°C (+32°F TO +122°F)																				
OPERATE -20°C TO +85°C																				

NOT 1 2 3 4 4 - 5 6 - 7 - 8	ES SPAN IS THE RATED OPERAT TEMPERATURE INPUT MEDIA ATTACK SILICO TERMINALS AR FOR IO SECONI PIN I IS IDENT SENSOR IS OI RATIOMETRIC M5 THREADED
<u>9</u>	RECOMMENDED DO NOT EXCE SIZE 007 O-R O-RING CONTE $\emptyset$ .300 $\pm$ .003 I/4-28 UNF RECOMMENDED DO NOT EXCEE SIZE 009 O-RI O-RING COUNT $\emptyset$ .360 $\pm$ .003
$\Delta$	CATALOG LISTI CATALOG LISTI
$\bigwedge$	FOR CATALOG

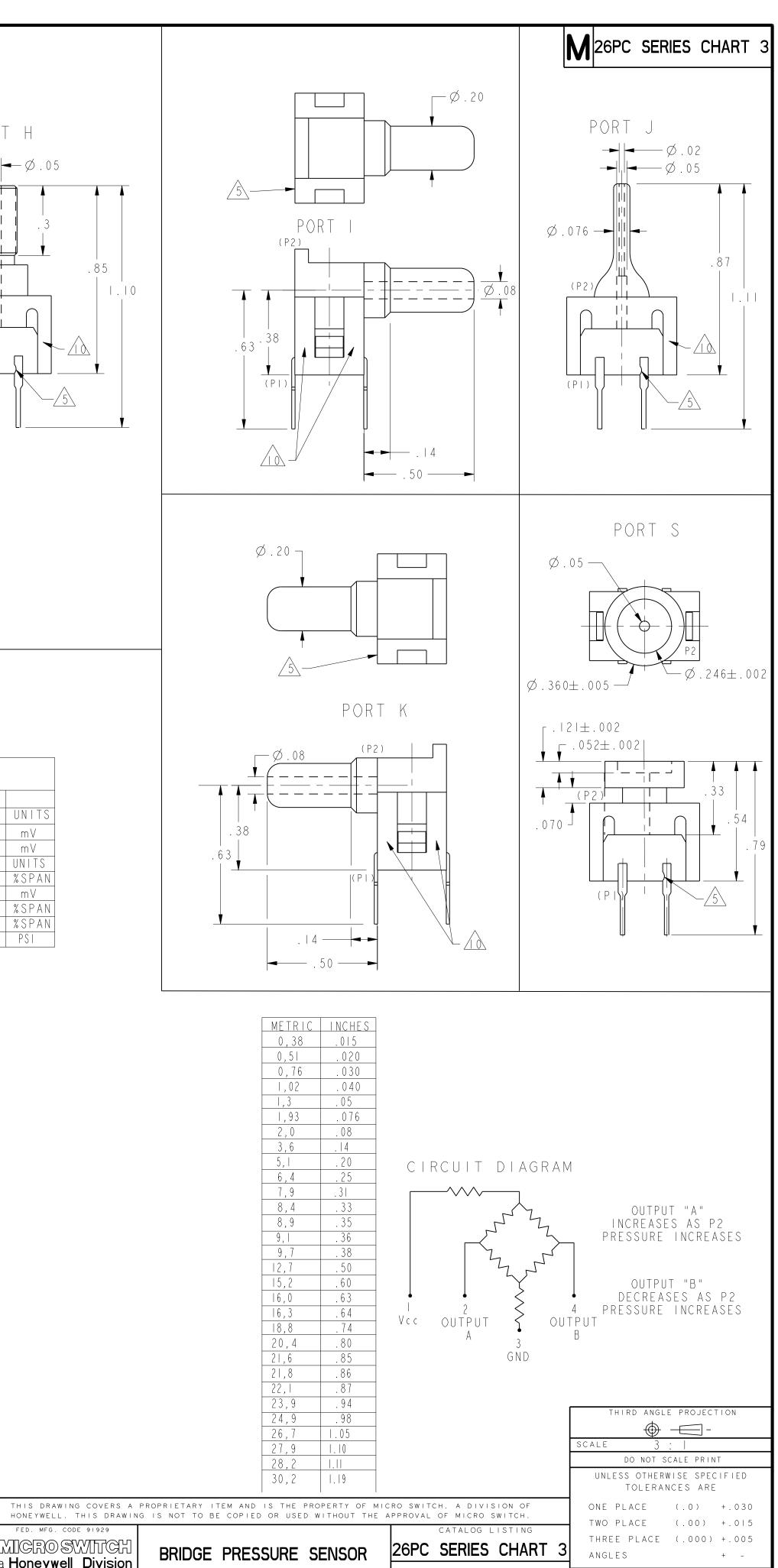
SERIES CHART 3		REPLACES		
GH			CATALOG LISTING	LASER BRAND/TO
ES	10 10	32	26PCAFA2G	6 A F 2 G
SER		745	26PCDFA2G	6 D F 2 G
		C O -	26PCDFB2G	6 D F 2 G
26PC	AGE	No. (	26PCBFA2G	6BF2G
	à	EASE N	26PCCFA2G	6CF2G
2		RELE/	26PCBFB2G	6BF2G
RG		07 1	26PCCFB2G	6CF2G
DRAWIN		⊢	26PCBFC2G	6BF2G
۵z		00	26PCCFJ2G	6CF2G
ω		6_	26PCCFK2G	6CF2G
38		_	26PCAFH2G	6 A F 2 G
SSUE		CMH	26PCAFK2G	6 A F 2 G
-		×	26PCAFC2G	6 A F 2 G
		СНЕСК	26PCFFH2G	6 F F 2 G
REVISIO		6	26PCBFK2G	6BF2G
L 0034		RO	26PCFFA2G	6 F F 2 G
19 OCT M 0037		3MA	26PCAFD2G	6 A F 2 G
OI FEB	08	$\bigcirc$	26PCGFA2G	6GF2G
N 0037 CMH	432		26PCAED2G	6 A E 2 G
08FEB0		AK	26PCDED2G	6 D E 2 G
SS 0   APR(		ЧЧ	26PCAFB2G	6 A F 2 G
P 0039		CHECK	26PCFFB2G	6 F F 2 G
25APRO	8	)4	26PCFFM2G	6 F F 2 G
		NE (	26PCBFD2G	6BF2G
		4 J U	26PCCFD2G	6CF2G
		7 ()	26PCGFJ2G	6GF2G
		АK	26PCBFS2G	6BF2G
		A	26PCGFB2G	6GF2G
•		Y U		

26PC\_F\_2G



ALGEBRAIC DIFFERENCE BETWEEN OUTPUT AT MAXIMUM TING PRESSURE AND OUTPUT AT 0 PSI ERROR IS CALCULATED WITH RESPECT TO 25°C LIMITED ONLY TO THOSE MATERIALS THAT WILL NOT CON, THE HOUSING MATERIAL OR SEAL MATERIAL RE PLATED FOR SOLDERING (LIMIT SOLDERING TO 315°C NDS MAXIMUM) TIFIED BY NOTCH IN LEAD OPERATIONAL OVER VACUUM PRESSURE RANGE TO SUPPLY VOLTAGE# PRODUCT: TORQUE FOR SEALING: 4 IN-LBS EED 6 IN-LBS OF TORQUE RING ERBORE DIMENSIONS: X ↓ .040 THREADED PRODUCT: TORQUE FOR SEALING: 8 IN-LBS ED 12 IN-LBS OF TORQUE ING TERBORE DIMENSIONS: X ↓.040±.002 ING AND DATE CODE HERE. ALTERNATE FORMAT OF ING BRAND IS THE ENTIRE CATALOG LISTING G LISTINGS WITH EPDM SEALS ONLY

FED. MFG. CODE 91929 MICRO SWITCH a Honeywell Division



weight 2 OZ.