



26PCCFB6G



Actual product appearance may vary.

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

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

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.

Potential Applications

Medical

- Oxygen and nitrogen gas distribution in hospitals
- Dental chairs

Environmental

- Water control valves
- Instrumentation
- Irrigation equipment
- Filter monitoring equipment

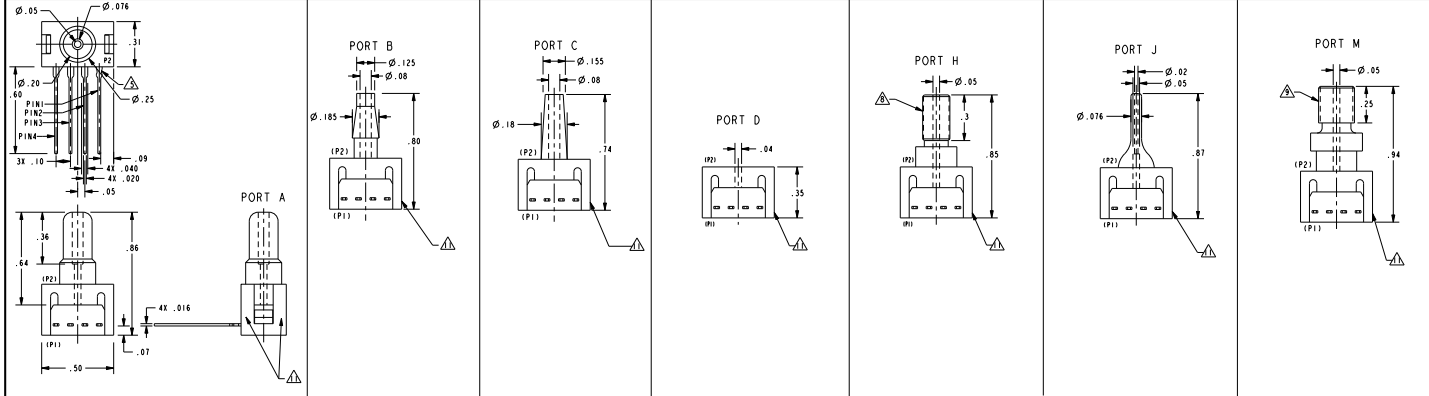
Industrial Instrumentation

- Robotics
- Pressure valves
- Leak detection
- Air compressors

Analytical Instrumentation

- Gas chromatography

Product Specifications	
Measurement Type	Vacuum Gage, 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; 1 x 4; 0.600 in
Port Style	Barbed
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	± 0.5 mV typ., ± 1.0 mV max.
Span Shift Over Temperature	± 0.75% 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



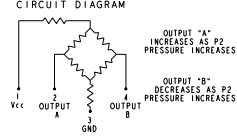
CATALOG LISTING	LASER BRAND	26PC F 6G
26PCF6G	6CF6G	STYLE
26PCF6G	6BF6G	(E) GAGE TERMINATION
26PCF6G	6CF6G	(F) 1/4 (1.60 IN.) PORT
26PCF6G	6CF6G	(A) STRAIGHT
26PCF6G	6CF6G	(B) BARE
26PCF6G	6CF6G	(C) LUB
26PCF6G	6CF6G	(D) MODULAR
26PCF6G	6CF6G	(H) 5mm THREAD
26PCF6G	6CF6G	(J) SMALL NEEDLE
26PCF6G	6CF6G	(M) 1/4-28 THREAD
26PCF6G	6CF6G	SEAL
26PCF6G	6CF6G	(F) FLUOROSILICONE
26PCF6G	6CF6G	(E) EPDM
26PCF6G	6CF6G	(N) NEOPRENE
26PCF6G	6CF6G	PRESSURE
26PCF6G	6CF6G	(A) 1 PSI
26PCF6G	6CF6G	(B) 5 PSI
26PCF6G	6CF6G	(C) 15 PSI
26PCF6G	6CF6G	(D) 30 PSI
26PCF6G	6CF6G	(E) 100 PSI
26PCF6G	6CF6G	(G) 250 PSI

GENERAL OPERATING CHARACTERISTICS
ELECTRICAL PERFORMANCE AT 10.00±0.01 VDC EXCITATION, 25°C

PRESSURE RANGE (PSI)	0 - 1			0 - 5			0 - 15			0 - 30			0 - 100			0 - 250			UNITS
	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	
SPAN (P2-P1) Δ	14.7	16.7	18.7	47	50	53	97	100	103	97	100	103	95	100	105	143	150	157	mV
NULL OFFSET	-1.5	0	+1.5	0	+1.5	-1.5	0	+1.5	-1.5	0	+1.5	-2.0	0	+2.0	-2.0	0	+2.0	-2.0	mV
LINEARITY (95SL, P2-P1)	TYP MAX			TYP MAX			TYP MAX			TYP MAX			TYP MAX			TYP MAX			UNITS
NULL SHIFT (0 TO 25°C, 25 TO 50°C) Δ	±0.5			±0.5			±0.5			±0.5			±0.5			±0.5			SPAN
SPAN SHIFT (0 TO 25°C, 25 TO 50°C) P2-P1 Δ	±1.0			±1.0			±0.75			±1.5			±0.5			±1.5			SPAN
REPEATABILITY AND HYSTERESIS	±0.5			±0.2			±0.2			±0.2			±0.2			±0.2			SPAN
OVERPRESSURE (P2-P1; P1-P2)	20			20			45			60			200			500			PSI

ALL PRESSURE RANGES	MIN	NOM	MAX	UNITS
EXCITATION VOLTAGE	10	16		VDC
INPUT RESISTANCE	5.5K	7.5K	11.5K	OHMS
OUTPUT RESISTANCE	1.5K	2.5K	3.0K	OHMS
RESPONSE TIME			1.0	ms

TEMPERATURE RANGES	
STORAGE	-55°C TO +100°C (-67°F TO +212°F)
OPERATE	-40°C TO +85°C (-40°F TO +185°F)
COMPENSATED	0 TO +50°C (+32°F TO +122°F)
OPERATE Δ	-20°C TO +85°C



METRIC	INCHES
0.41	.016
0.51	.020
1.02	.040
1.3	.05
1.83	.07
1.93	.076
2.0	.08
2.3	.09
2.5	.10
5.1	.20
6.4	.25
7.9	.31
9.1	.36
12.7	.50
15.3	.60
16.3	.64
20.4	.80
21.6	.85
21.8	.86
22.1	.87
23.9	.94

NOTES

- SPAN IS THE ALGEBRAIC DIFFERENCE BETWEEN OUTPUT AT MAXIMUM RATED OPERATING PRESSURE AND OUTPUT AT 0 PSI
- TEMPERATURE ERROR IS CALCULATED WITH RESPECT TO 25°C
- INPUT MEDIA LIMITED ONLY TO THOSE MATERIALS THAT WILL NOT ATTACK SILICON, THE HOUSING MATERIAL OR SEAL MATERIAL
- TERMINALS ARE PLATED FOR SOLDERING (LIMIT SOLDERING TO 315°C FOR 10 SECONDS MAXIMUM)
- PIN 1 IS IDENTIFIED BY NOTCH IN LEAD
- SENSOR IS OPERATIONAL OVER VACUUM PRESSURE RANGE
- RATIO METRIC TO SUPPLY VOLTAGE
- MS THREADED PRODUCT
RECOMMENDED TORQUE FOR SEALING: 4 IN-LBS
DO NOT EXCEED 6 IN-LBS OF TORQUE
SIZE .007 O-RING
O-RING COUNTERBORE DIMENSIONS
Ø .300±.003 X 1/8 X .040
- 1/4-28 UNF THREADED PRODUCT:
RECOMMENDED TORQUE FOR SEALING: 8 IN-LBS
DO NOT EXCEED 12 IN-LBS OF TORQUE
SIZE .009 O-RING
O-RING COUNTERBORE DIMENSIONS:
Ø .360±.003 X 1/8 X .040±.002
- THIS IS FOR CATALOG LISTINGS WITH EPDM SEALS ONLY
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- CATALOG LISTING AND DATE CODE HERE. ALTERNATE FORMAT OF CATALOG LISTING GRAND IS THE ENTIRE CATALOG LISTING

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MICRO SWITCH
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BRIDGE PRESSURE SENSOR
26PC SERIES CHART 5

ANSI Y14.5M-1982 (APPLICABLE)

WEIGHT 2.02