

### FEATURES

- 0...1 to 0...250 psi gage or differential
- High impedance bridge
- Miniature package
- Different pinning configurations
- Usable for wet/wet applications<sup>8</sup>

### SERVICE

All media compatible with

port 1: - polyetherimide  
- silver-filled silicone  
- silicon nitride

port 2<sup>9</sup>: - polyetherimide  
- fluor-silicone  
- silicon



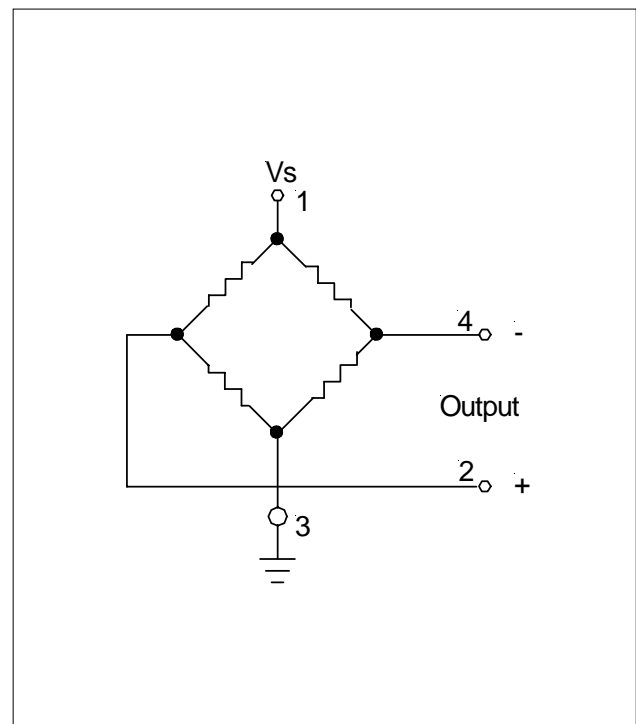
Scale: 1 cm  
1 inch

### SPECIFICATIONS

#### Maximum ratings

Supply voltage	16 V
Temperature limits	
Storage	-55 to +100°C
Operating	-40 to +85°C
Lead temperature (10 sec. soldering)	300°C
Humidity limits	0...100%RH
Vibration (MIL-STD-202, Meth. 213)	150 g half sine 11 msec.
Mechanical shock (qualification tested)	150 g
Proof pressure <sup>1</sup>	
all 1 and 5 psi devices	20 psi
all 15 psi devices	45 psi
all 30 psi devices	60 psi
all 100 psi devices	200 psi
all 250 psi devices	500 psi

### ELECTRICAL CONNECTION



### PRESSURE SENSOR CHARACTERISTICS

$V_s = 10.0 \pm 0.01 \text{ V}$ ,  $t_{amb} = 20^\circ\text{C}$  (unless otherwise noted)

Listing	Order number	Operating pressure	Full-scale span <sup>2</sup>		
			Min.	Typ.	Max.
26PCAFaxx	26PC0070xxA	0 - 1 psi (69 mbar)	14.7 mV	16.7 mV	18.7 mV
26PCBFaxx	26PC0350xxA	0 - 5 psi (345 mbar)	47 mV	50 mV	53 mV
26PCCFAxx	26PC1000xxA	0 - 15 psi (1034 mbar)	97 mV	100 mV	103 mV
26PCDFaxx	26PC2000xxA	0 - 30 psi (2068 mbar)	97 mV	100 mV	103 mV
26PCFFaxx	26PC7000xxA	0 - 100 psi (6.9 bar)	95 mV	100 mV	105 mV
26PCGFaxx	26PC17K0xxA	0 - 250 psi (17.2 bar)	143 mV	150 mV	157 mV

### COMMON PERFORMANCE CHARACTERISTICS

$V_s = 10.0 \pm 0.01 \text{ V}$ ,  $t_{amb} = 25^\circ\text{C}$  (unless otherwise noted)

Characteristics		Min.	Typ.	Max.	Unit	
Zero pressure offset	all 100 psi devices	-2.0		+2.0	mV	
	all other devices	-1.5		+1.5		
Temperature effects (0 - 50°C) <sup>4</sup>						
Offset	all 1 to 15 psi devices		±0.5	±1.0		
	all 30 psi devices		±0.75	±1.5		
	all other devices		±1.0	±2.0		
Span	all 1 psi devices		±1.0	±2.0		
	all other devices		±0.75...±1.0	±1.5		
Linearity (P2 > P1, BSL) <sup>3</sup>	all 1 to 15 psi devices		±0.25	±0.5		% span
	all 30 psi devices		±0.1	±0.2		
	all other devices		±0.1	±0.7		
Repeatability and hysteresis <sup>5</sup>			±0.2			
Long term stability <sup>7</sup>			±0.5			
Input impedance		5.5	7.5	11.5	kΩ	
Output impedance		1.5	2.5	3.0		
Response time <sup>6</sup>				1.0	ms	

#### Specification notes:

- The maximum specified pressure which may be applied to the sensor without causing a permanent change in the output characteristics.
- Span is the algebraic difference between the output voltage at full-scale pressure and the output at zero pressure. Span is ratiometric to the supply voltage.
- Linearity (BSL), the deviation of measured output at constant temperature (25°C) from "Best Straight Line" determined by three points, offset pressure, full-scale pressure and half full-scale pressure.

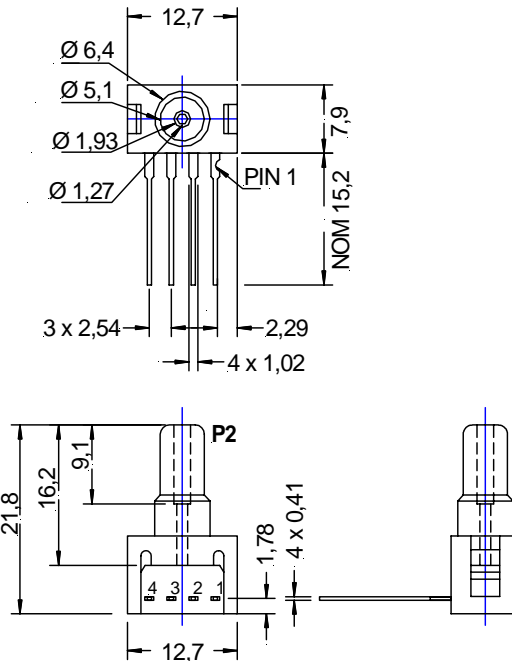
$$\left[ V_{\frac{1}{2} \text{ full scale}} - \left\{ \frac{V_{\text{full scale}} - V_{\text{offset}}}{(\text{full scale pressure})} \times \left( \frac{1}{2} \text{ full scale pressure} \right) + V_{\text{offset}} \right\} \right] : 2 (V_{\text{full scale}}) \times 100 \%$$

where: V = measured value for each device

- Error band of the offset voltage, span or bridge impedance in the specified temperature range, relative to the 25°C reading.
- Repeatability, the deviation in output readings for successive application of any given input pressure (all other conditions remaining constant). Hysteresis, the error defined by the deviation in output signal obtained when a specific pressure point is approached first with increasing pressure, then with decreasing pressure or vice versa (all other conditions remaining constant).
- Response time for 0 to full-scale pressure step change, readings taken at 10 % and 90 % of full-scale pressure.
- Long term stability of offset and span over a period over one year.
- The sensors might be used on both ports, for media compatible with the components, specified under "Service" (page 1).
- Other sealing materials are available on request.** Minimum order quantities might be required.
- Other pressure port styles, like barbed ones, luers, modular, M5, needle style or flow through connection, are available on request.** Minimum order quantities might be required.

### OUTLINE DRAWINGS<sup>10</sup>

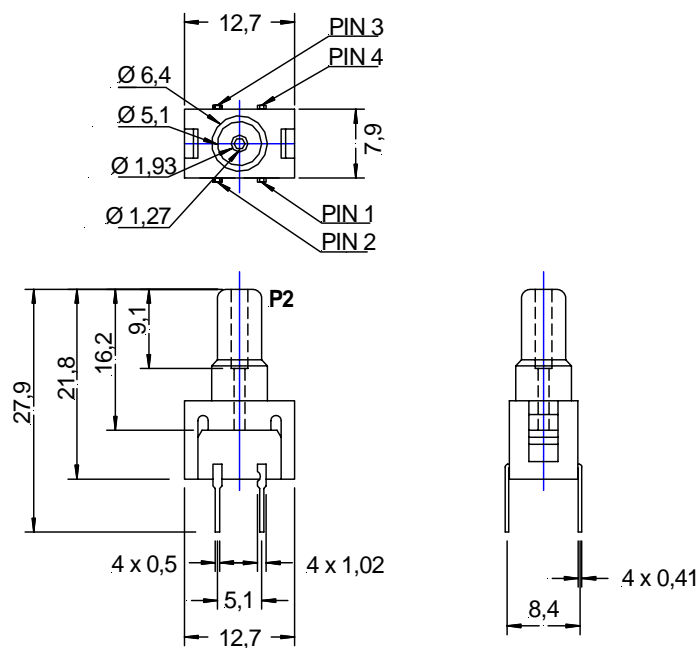
#### 26PCxxxxG6A (single inline pinning, 1 x 4), gage pressure devices



mass: 2 g

dimensions in mm

#### 26PCxxxxG2A (dual inline pinning, 2 x 2), gage pressure devices



mass: 2 g

dimensions in mm

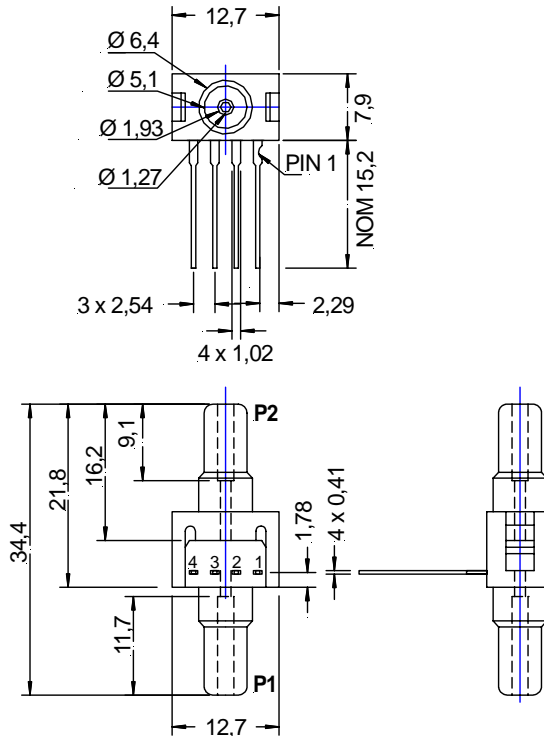
# 26PC Series (psi)

Honeywell

Temp. compensated and calibrated pressure sensors

## OUTLINE DRAWINGS<sup>10</sup>

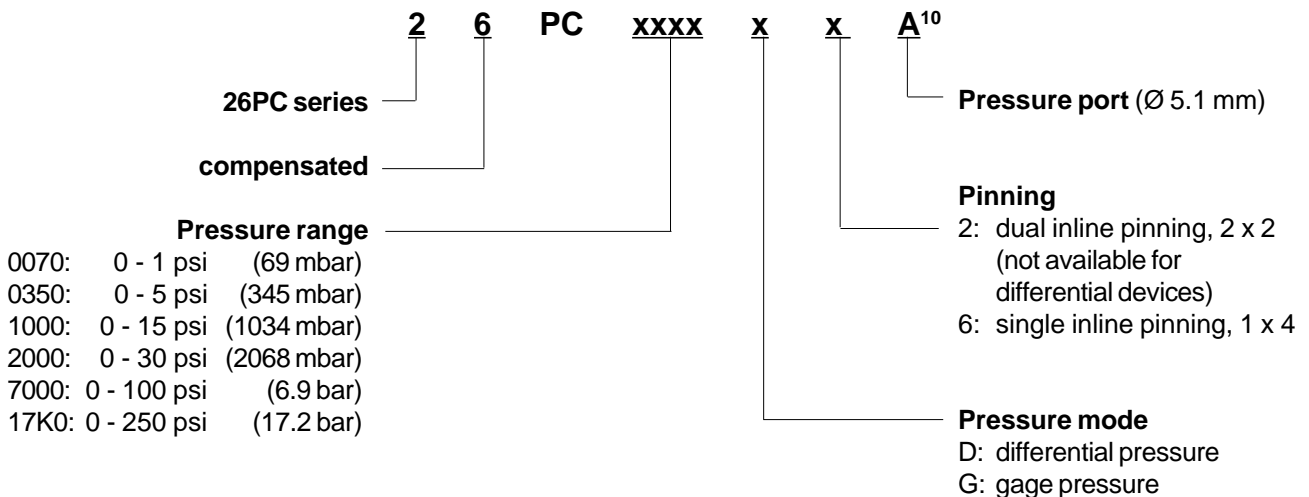
26PCxxxxD6A (single inline pinning, 1 x 4), differential pressure devices



mass: 2 g

dimensions in mm

## ORDERING INFORMATION



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