

FEATURES

- 0...1 to 0...250 psi gage or differential
- High impedance bridge
- Miniature package
- Different pinning configurations
- Usable for wet/wet applications⁸

SERVICE

All media compatible with

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

port 2⁹: - polyetherimide
- fluor-silicone
- silicon



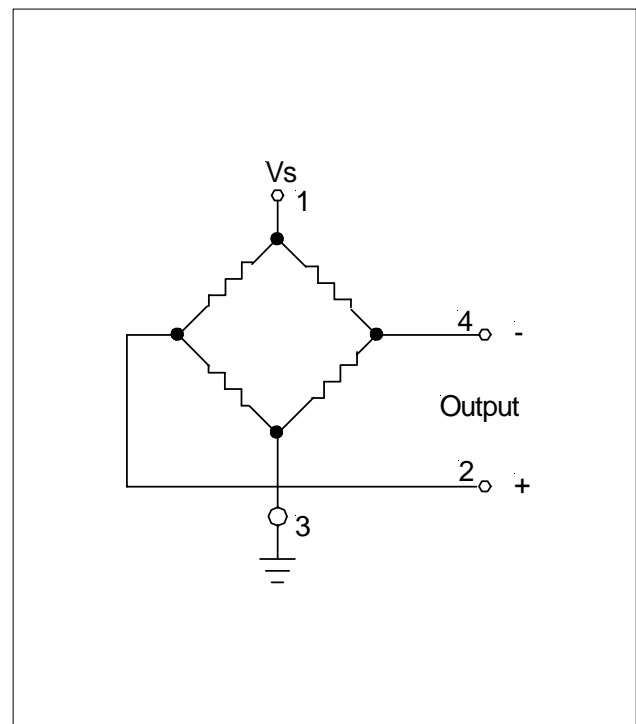
Scale: 1 cm
1 inch

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 ¹ | |
| 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

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

| Listing | Order number | Operating pressure | Full-scale span ² | | |
|-----------|--------------|------------------------|------------------------------|---------|---------|
| | | | 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

$V_s = 10.0 \pm 0.01$ 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) ⁴ | | | | | | |
| 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) ³ | 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 ⁵ | | | ±0.2 | | | |
| Long term stability ⁷ | | | ±0.5 | | | |
| Input impedance | | 5.5 | 7.5 | 11.5 | kΩ | |
| Output impedance | | 1.5 | 2.5 | 3.0 | | |
| Response time ⁶ | | | | 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.

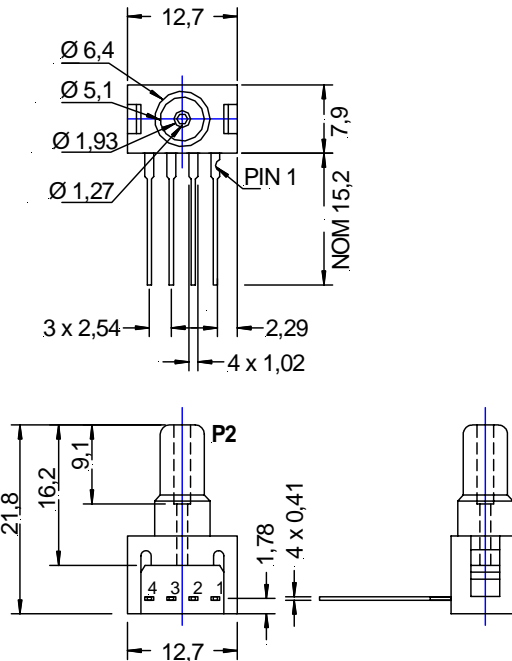
$$\left[V_{\frac{1}{2} \text{ full scale}} - \left\{ \frac{V_{\text{full scale}} - V_{\text{offset}}}{(\text{full scale pressure})} \times \left(\frac{1}{2} \text{ full scale pressure} \right) + V_{\text{offset}} \right\} \right] : 2 (V_{\text{full scale}}) \times 100 \%$$

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 DRAWINGS¹⁰

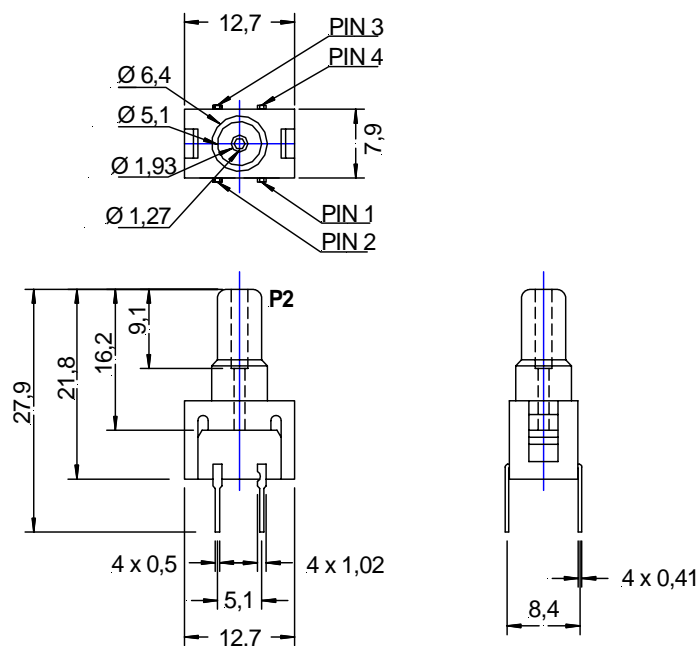
26PCxxxxG6A (single inline pinning, 1 x 4), gage pressure devices



mass: 2 g

dimensions in mm

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



mass: 2 g

dimensions in mm

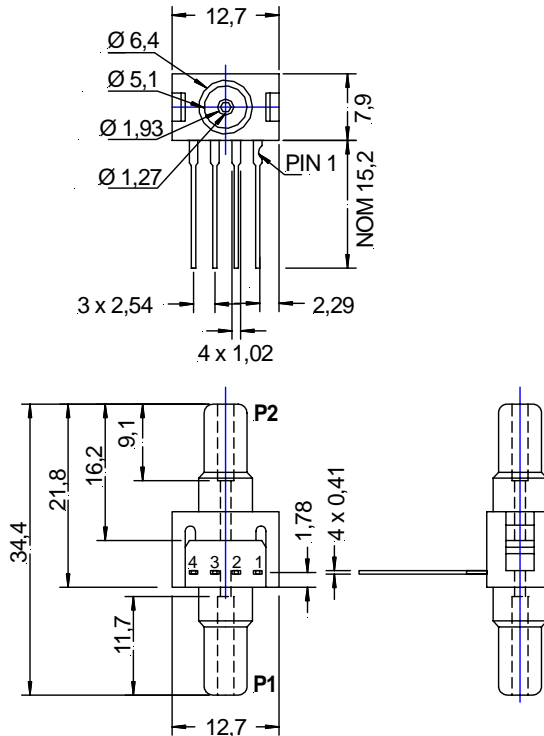
26PC Series (psi)

Honeywell

Temp. compensated and calibrated pressure sensors

OUTLINE DRAWINGS¹⁰

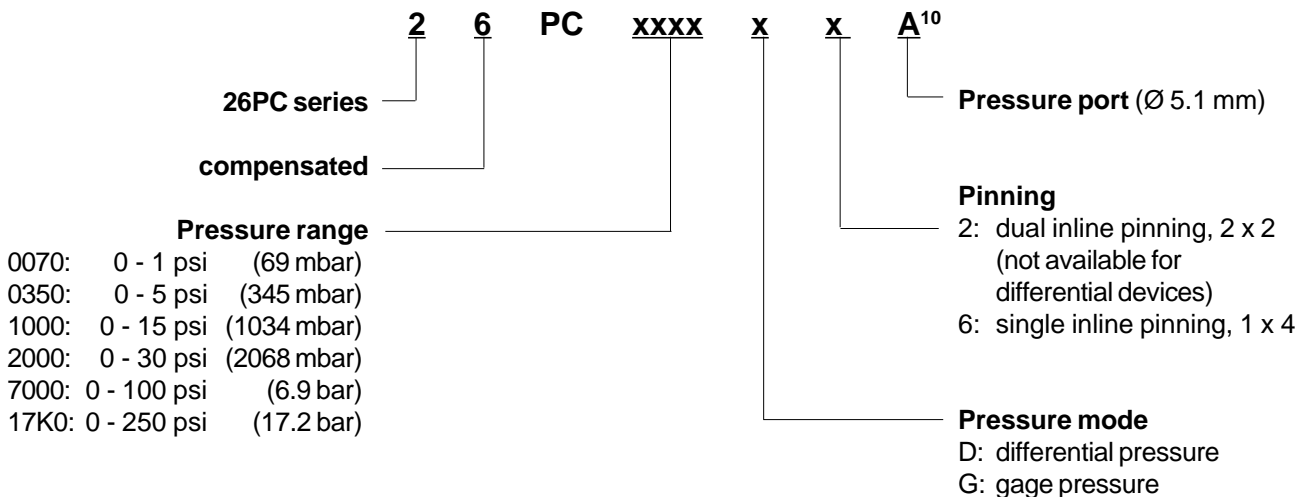
26PCxxxxD6A (single inline pinning, 1 x 4), differential pressure devices



mass: 2 g

dimensions in mm

ORDERING INFORMATION



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