

Features

- Uncompensated, mV output
- Ultra-low pressure sensing
- Absolute and differential types
- For use in clean, dry air and non-corrosive gas environments
- Tape and reel packaging
- RoHS compliant*

Applications

Industrial:

- HVAC systems
- Process monitoring
- Packaging automation
- **Medical Devices (low/medium risk):
- Diagnostic equipment
- Analysis equipment

BPS310 Series - 12 mm Uncompensated Low Pressure Sensor

Electrical Characteristics	
Supply Voltage (V _S)Impedance	
Supply Current @ 5 V	

Additional Information

Click these links for more information:







INVENTORY





Operating Temperature -40 °C to +85 °C (-40 °F to +185 °F) Storage Temperature -55 °C to +100 °C (-67 °C to +212 °F) Pressure Range 0.15 to 1.0 psi (10.3 to 68.9 mbar; 1.03 to 8.89 KPa; 4.2 to 27.7 in H2O) Offset (1) ±10 mV Non-linearity (2) ±0.25 °K-FS Pressure Hysteresis ±0.1 °K-FS (@25 °K-FS Pressure Hysteresis ±0.1 °K-FS (@25 °K-FS Temperature Coefficient – Zero (3) ±20 µV/V°C 0.15psi to 1.00psi: 2500 ± 500 PPM/°C Temperature Coefficient – Resistance (3) 2500 ± 500 PPM/°C Temperature Coefficient – Sensitivity (0.15 psi) (3) -3000 ± 500 PPM/°C Temperature Coefficient – Sensitivity (0.2 psi – 1 psi) (3) -2500 ± 500 PPM/°C Temperature Coefficient – Sensitivity (0.2 psi – 1 psi) (3) -2500 ± 500 PPM/°C Proof Pressure 5X (Full Scale Pressure) Burst Pressure 5X (Full Scale Pressure) Spsi to 30psi: -2000 ± 500 PPM/°C Temp Coefficient – Resistance (3) -3100 + 400 /- 600 PPM/°C Temp Coefficient – Sensitivity (3) -2000 ± 500 PPM/°C Long-Term Stability ±20 Descriperature Description (4) Figure Pressure	Performance Characteristics		
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0.15psi to 1.00psi: 2500 ± 500 PPM/°C Temperature Coefficient − Resistance (3) .3000 ± 500 PPM/°C Temperature Coefficient − Sensitivity (0.15 psi) (3) .2500 ± 500 PPM/°C Long-Term Stability ±0.25 %FS (@125 °C) Proof Pressure 5X (Full Scale Pressure) Burst Pressure 10 PSI Spsi to 30psi: .3100 + 400 / - 600 PPM/°C Temp Coefficient − Resistance (3) .3100 + 400 / - 600 PPM/°C Long-Term Stability .2000 ± 500 PPM/°C Long-Term Stability ±0.1 %FS (@125 °C) Burst Pressure .10X (Full Scale Pressure) Full Scale Output (@ 5 volts): 0.15psi (4 in H ₂ O; 1.03 KPa) 37.5 ± 7.5 mV 0.30psi (8.3 in H ₂ O; 2.1 KPa) .37.5 ± 7.5 mV 0.30psi (8.3 in H ₂ O; 6.9 KPa) .30 ± 10 mV 5 psi (0.34 bar; 34.5 KPa) .50 ± 10 mV 5 psi (0.34 bar; 34.5 KPa) .133 ± 27 mV 15 psi (1 bar; 103 KPa) .150 ± 30 mV Product Characteristics Media Compatibility Non-corrosive dry gasses Moisture Sensitivity Level .2 ESD Classification (HBM) .2 kV	Pressure Hysteresis	±0.1 %FS (@25 °C)	
Temperature Coefficient – Resistance (3) .2500 ± 500 PPM/°C Temperature Coefficient – Sensitivity (0.15 psi) (3) .3000 ± 500 PPM/°C Temperature Coefficient – Sensitivity (0.2 psi – 1 psi) (3) .2500 ± 500 PPM/°C Long-Term Stability ±0.25 %FS (@125 °C) Proof Pressure 5X (Full Scale Pressure) Burst Pressure 5X (Full Scale Pressure) Burst Pressure .10 PSI 5psi to 30psi:	Temperature Coefficient – Zero (3)	±20 μV/V/°Ć	
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Temperature Coefficient − Sensitivity (0.15 psi) (3)	Temperature Coefficient – Resistance (3)	2500 ± 500 PPM/°C	
Temperature Coefficient – Sensitivity (0.2 psi – 1 psi) (3)	Temperature Coefficient – Sensitivity (0.15 psi) (3)	-3000 ± 500 PPM/°C	
Long-Term Stability. ±0.25 %FS (@ 125 °C) Proof Pressure. 5X (Full Scale Pressure) Burst Pressure. 10 PSI 5psi to 30psi: Temp Coefficient − Resistance (³) 3100 + 400 /- 600 PPM/°C Temp Coefficient − Sensitivity (³) -2000 ± 500 PPM/°C Long-Term Stability. ±0.1 %FS (@ 125 °C) Burst Pressure. 10X (Full Scale Pressure) Full Scale Output (@ 5 volts): 0.15psi (4 in H₂O; 1.03 KPa). 37.5 ± 7.5 mV 0.30psi (8.3 in H₂O; 2.1 KPa). 45 ± 9 mV 1.00psi (27 in H₂O; 6.9 KPa). 50 ± 10 mV 5 psi (0.34 bar; 34.5 KPa). 133 ± 27 mV 15 psi (1 bar; 103 KPa). 150 ± 30 mV 30 psi (2.1 bar; 207 KPa). 150 ± 30 mV 7 product Characteristics Media Compatibility Mon-corrosive dry gasses Moisture Sensitivity Level. 2 ESD Classification (HBM). 2 kV Marking. Partial model number, media compatibility, pressure type, pressure rating, lot code Standard Packaging. 250 pcs./reel	Temperature Coefficient – Sensitivity (0.2 psi – 1 psi) (3)	-2500 ± 500 PPM/°C	
Burst Pressure			
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Full Scale Output (@ 5 volts): 0.15psi (4 in H ₂ O; 1.03 KPa)	Long-Term Stability	±0.1 %FS (@125 °C)	
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Product Characteristics Media Compatibility	15 psi (1 bar; 103 KPa)		
Media Compatibility	30 psi (2.1 bar; 207 KPa)		
Moisture Sensitivity Level	Product Characteristics		
Moisture Sensitivity Level	Media Compatibility	Non-corrosive dry gasses	
ESD Classification (HBM)			
Marking			
Standard Packaging			
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Notes

- (1) Zero pressure, gauge only, at 25 °C
- (2) Best fit straight line at 25 °C
- (3) -25 °C to +75 °C

BOURNS®

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Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

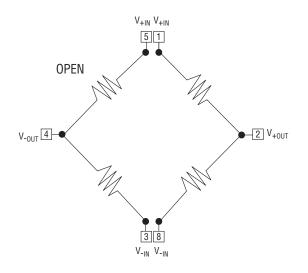
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^{*} RoHS3 Directive 2015/863 Amendments of Annex II on March 31, 2015

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BPS310 Series - 12 mm Uncompensated Low Pressure Sensor

Sensor Bridge Configuration



Transfer Function Formula

$$V_{out} = (250 * P) + Offset \pm Error$$

Where

Offset = 0 mVError = 0 mV= 5.0 VTEMP = 25 °C

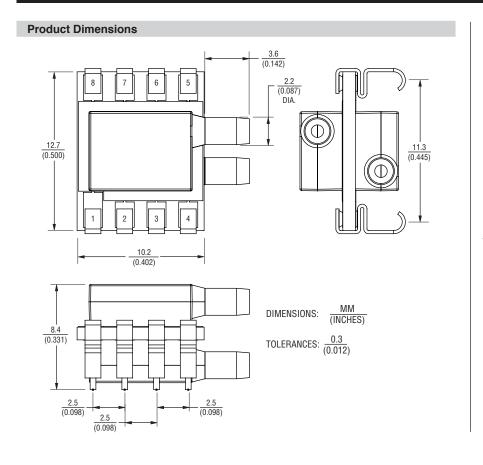
Consult factory for custom options such as supply voltage, temperature calibration range, output range accuracy specification, and update rate.

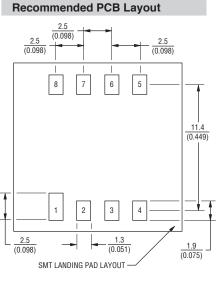
Terminal Assignment

DEVICE PINOUT	OPEN	CLOSE
P1	+IN	+IN
P2	+0	+0
Р3	-IN	-IN
P4	-O	-O
P5	+IN	N/C
P6	N/C	N/C
P7	N/C	N/C
P8	-IN	N/C

BPS310 Series - 12 mm Uncompensated Low Pressure Sensor

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How To Order BPS310 - A D 01P0 - 2 D G Model Series Uncompensated, mV output Media Compatibility A = Air/Gas Pressure Type A = Absolute (15 and 30 psi only) D = Differential Pressure (psi) 0P15 = 0.150P30 = 0.3001P0 = 1.0015P = 15030P = 30Terminal Pins 2 = Surface Mount Terminals Port Style -D = Dual Port, Horizontal Packaging Designator

Specifications are subject to change without notice.

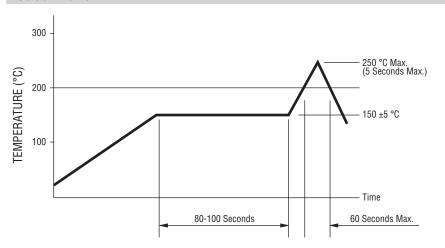
G = 250 pcs. per 13-inch Reel

Users should verify actual device performance in their specific applications.

BPS310 Series - 12 mm Uncompensated Low Pressure Sensor

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Solder Profile



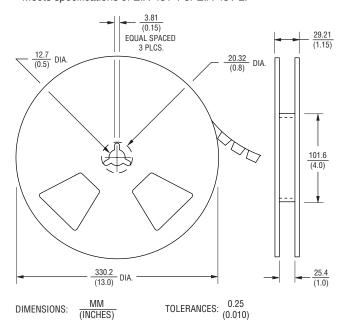
Notes:

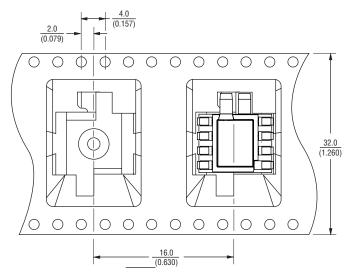
- 1. No clean solder paste is recommended.
- 2. Aqueous wash is not recommended.
- Use of water soluble soldering flux should be avoided due to possible corrosion.
- 4. Multiple passes through the soldering process is not recommended.
- 5. Other SMD processes and profiles should be verified by the customer.

Processing Method: Reflow soldering with infrared heat or forced air convection (only once).

Packaging Specification

250 pieces per 13-inch reel. Meets specifications of EIA-481-1 or EIA-481-2.





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