

# Features

- Uncompensated analog output
- Absolute and gauge types
- Direct media monitoring
- Compatible with certain harsh media (backside port only)
- Gold-plated Kovar<sup>™</sup> port
- RoHS compliant\*

# BPS340 Series - 9 mm Analog Medium Pressure Sensor

### **Electrical Characteristics**

Supply Voltage (V <sub>s</sub> )	
Supply Current @ 5 V	
Output	mV
Impedance	5 ±1 kΩ

# **Additional Information**

Click these links for more information:



### **Electrical Characteristics**

Supply Voltage (Vs)	1.5 V minimum, 5 V typical, 15 V maximum
Supply Current @ 5 V	
Output	mV
Impedance	5 ±1 kΩ
Impedance	

# Performance Characteristics

Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +100 °C
Pressure Range	
Offset1	0 ±10 mV/V
Non-linearity <sup>2</sup>	±0.2 % FS
Pressure Hysteresis	±0.1 % FS
Thermal Hysteresis <sup>3</sup>	±0.2 % FS
Temperature Coefficient - Zero <sup>4</sup>	±25 μV/V/°C
Temperature Coefficient - Resistance <sup>4</sup>	
Temperature Coefficient - Sensitivity <sup>4</sup>	
Burst Pressure	

### Full Scale Output (@ 5 volts)

15 psi	75 ±15 mV
100 psi	50 ±30 mV
500 psi 1	75 ±35 mV

### Product Characteristics

Media Compatibility	Certain harsh media (air, liquid and gasses)
Moisture Sensitivity Level	
ESD Classification (HBM)	
Marking	
Standard Packaging	
Weight	0.325 grams (short port) / 0.450 grams (long port)

### Notes:

Zero pressure, gauge only, at 25 °C
Best fit straight line at 25 °C
Zero pressure
-40 °C to +85 °C



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WARNING Cancer and Reproductive Harm - <u>www.P65Warnings.ca.gov</u>

"Kovar" is a trademark of CRS Holdings, Inc., Delaware

\*RoHS3 Directive 2015/863 Amendments of Annex II on Mar 31, 2015.

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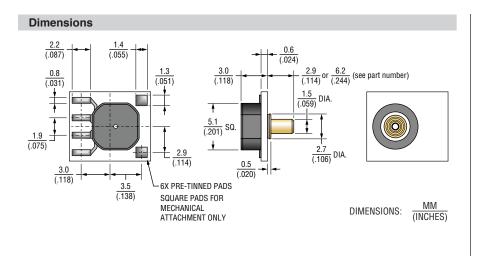
Users should verify actual device performance in their specific applications.

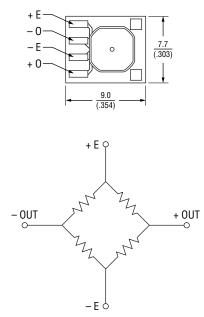
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# BPS340 Series – 9 mm Analog Medium Pressure Sensor

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**Basic Circuit Schematic** 





## How To Order

	BPS340 - H A 015P - 4 S G
Model Series — Uncompensated, mV Output	
Media Compatibility H = Certain Harsh Media	
Pressure Type G = Gauge A = Absolute	
Pressure 015P = 15 psi 100P = 100 psi 500P = 500 psi	
Terminal Pins 4 = Surface Mount, No Terminals	
Port Style S = Single Port, Short (2.9 mm) L = Single Port, Long (6.2 mm, tray packaging only)	
Packaging Designator	

(blank) = 100 pcs. per Tray

G = 500 pcs. per 13-inch reel

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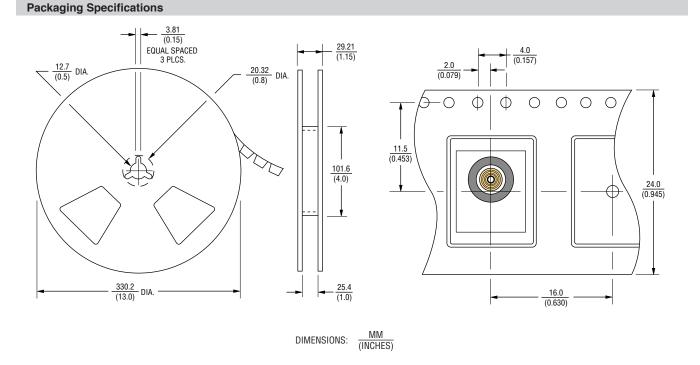
# Solder Profile

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

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- 1. No clean solder paste is recommended.
- 2. Aqueous wash is not recommended.
- 3. 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.



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