

Features

- Compensated output
- Certain harsh media monitoring
- Absolute and gauge types
- Isolated onboard electronics
- Ceramic port
- RoHS compliant*

Applications

- Industrial:
- Refrigerant systems
- Water level & pressure monitoring
- **Medical Devices (low/medium risk):
- Diagnostic/analysis equipment
- ***Heavy Equipment:
- Oil & fuel systems
- Exhaust gas pressure sensing

BPS140 Series - 10 mm Analog High Pressure Sensor for Certain Harsh Media

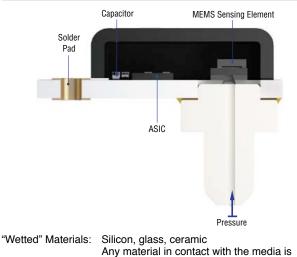
Electrical Characteristics

Supply Voltage (V _S) Supply Current Output Current	4.5 V minimum, 5 V typical, 5.5 V maximum10 mA
Output Current	
Short Circuit Current	±25 mA
Reverse Polarity Protection	33 V
Performance Characteristics	
Operating Temperature Storage Temperature Output Range V _{out} ****. Output Clamping Limit V _{out} ****. Resolution (>12 bit DAC) Accuracy @ 25 °C Total Error Band @ -40 °C to +150 °C (-40 °F to +302 °F) Static Proof Pressure.	
Storage Temperature	
Output Bange Vout****	10 % to 90 % V _c
Output Clamping Limit Vout****	5% to 95% V _o
Besolution (>12 bit DAC)	0 02 % FS
Accuracy @ 25 °C	+0 25 % FS
Total Error Band @ -40 °C to ± 150 °C (-40 °E to ± 302 °E)	+2 5 % FS
Static Proof Pressure	2X full scale PSIA
Burst Pressure	3X full scale PSIA
Lifetime Drift	
	±0.5 % FS

Product Characteristics

Media Compatibility	
10/	

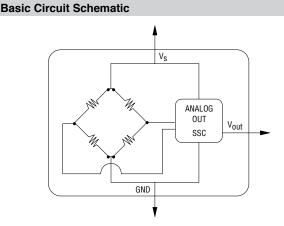
Cross Section



Any material in contact with the media is considered a "wetted" material.

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Note: Power supply decoupling and output filtering included.

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

* RoHS3 Directive 2015/863 Amendments of Annex II on March 31, 2015 ** Bourns® products have not been designed for and are not intended for use in "lifesaving," "life-critical" or "life-sustaining" applications nor any other applications where failure or malfunction of the Bourns® product may result in personal injury or death. See Legal Disclaimer Notice on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

*** Custom engineered solutions. Check with factory for availability. **** 5 V input voltage.

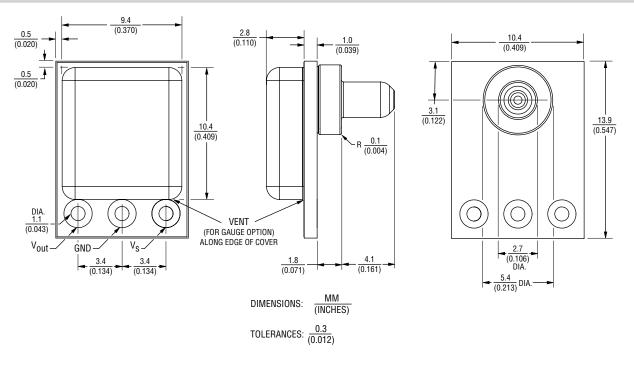
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BPS140 Series - 10 mm Analog High Pressure Sensor for Certain Harsh Media

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Product Dimensions



How To Order

	BPS140 - H A 015P - 1 S G
Model Series Analog Media Compatibility H = Certain Harsh Media	
Pressure Type A = Absolute G = Gauge	
Pressure (psi) 015P = 15 100P = 100 030P = 30 300P = 300	
Terminal Pins	
Port Style S = Single Port	
Packaging Designator	

G = 250 pcs. per 13-inch Reel

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Solder Profile

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

Notes:

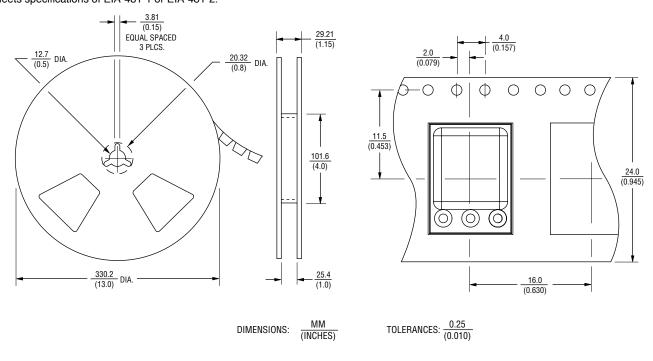
1. No clean solder paste is recommended.

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- 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.

Packaging Specification

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



REV. 04/19

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