



## Features

- Surface mount
- Gauge pressure
- Improved linearity
- Dual horizontal port
- RoHS compliant\*

## Applications

- Medical equipment\*\*  
(low to medium risk)
- White goods
- Industrial P/I
- Process control

# BPS160 Series – 10 mm Analog Pressure Sensor

## Electrical Characteristics

Supply Voltage ( $V_s$ ) ..... 4.75 V minimum, 5 V typical, 5.25 V maximum  
 Supply Current @ 5 V ..... 3.2 mA maximum

## Performance Characteristics

Operating Temperature ..... -20 °C to +100 °C (-4 °F to +212 °F)  
 Storage Temperature ..... -40 °C to +125 °C (-40 °F to +257 °F)  
 Output ..... Analog  
 DAC Resolution ..... 13 bit  
 Accuracy at 20 °C to 40 °C .....  $\pm 1.8\%$  FS  
 Total Error Band .....  $\pm 2.5\%$  FS  
 Lifetime Drift .....  $\pm 0.5\%$  FS  
 Startup Time ..... 2.3 mS max.  
 Sampling Range ..... 6.5 kHz  
 Soldering Profile ..... 260 °C, 10 sec.  
 Solder Reflow ..... J-STD-020 MSL3

## Product Characteristics

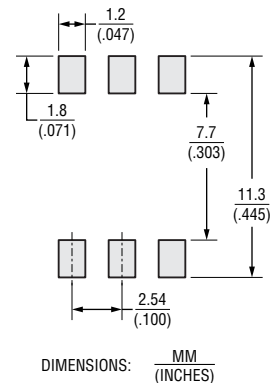
Media Compatibility ..... Harsh media (air and gas)  
 Moisture Sensitivity Level ..... 3  
 ESD Classification (HBM) ..... 2 kV  
 Marking ..... Partial model number, media compatibility, pressure type,  
 pressure rating, lot code  
 Standard Packaging ..... 600 pcs. / 13-inch reel  
 Weight ..... 0.303 grams (0.0106 oz)

## Additional Information

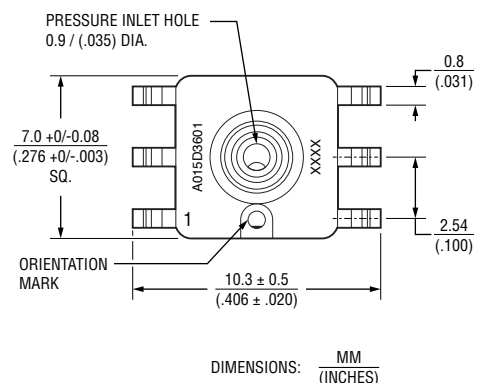
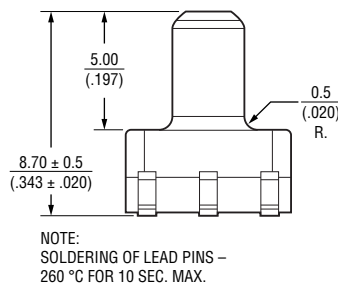
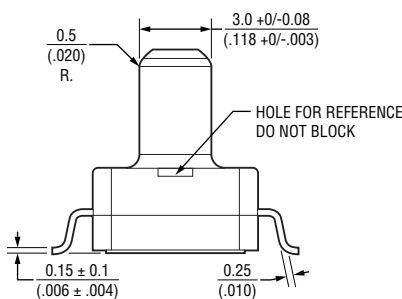
Click these links for more information:



## Recommended Layout



## Product Dimensions



**WARNING Cancer  
and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

\*\*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 <http://www.bourns.com/docs/legal/disclaimer.pdf>. Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at <http://www.bourns.com/docs/legal/disclaimer.pdf>.

# BPS160 Series – 10 mm Analog Pressure Sensor

**BOURNS®**

## How to Order

**BPS160 - A G 001B - 2 D G**

Model Series \_\_\_\_\_  
 10 mm Analog Pressure Sensor

Media Compatibility \_\_\_\_\_  
 A = Air/Gas

Reference \_\_\_\_\_  
 G = Gauge  
 N = Negative (14.5 psi only)  
 P = Dual Polarity (14.5 psi only)

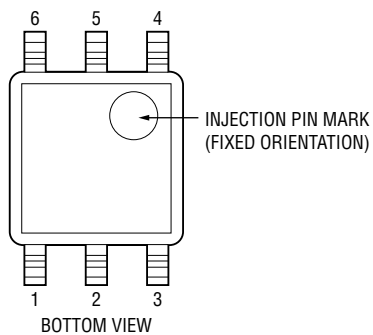
Pressure \_\_\_\_\_  
 001B = 14.5 psi    007B = 101.5 psi  
 002B = 29 psi    010B = 145 psi

Terminal Pins \_\_\_\_\_  
 2 = Surface Mount Terminals

Port \_\_\_\_\_  
 D = Single Vertical Port

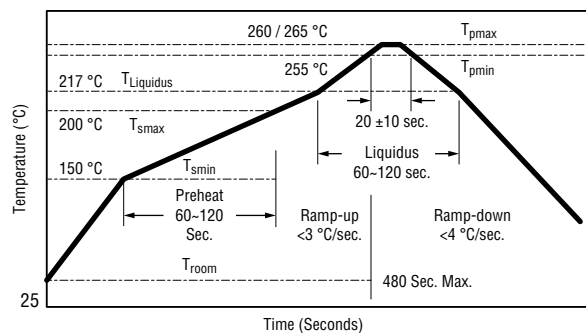
Packaging Designator \_\_\_\_\_  
 G = 600 pcs. per 13-inch reel (standard)  
 H = 100 pcs. per 7-inch reel

## Pin Information



| Pin # | Description     |
|-------|-----------------|
| 1     | N.C.            |
| 2     | N.C.            |
| 3     | N.C.            |
| 4     | V <sub>dd</sub> |
| 5     | V <sub>SS</sub> |
| 6     | OUT             |

## Solder Reflow Recommendations



Specifications are subject to change without notice.

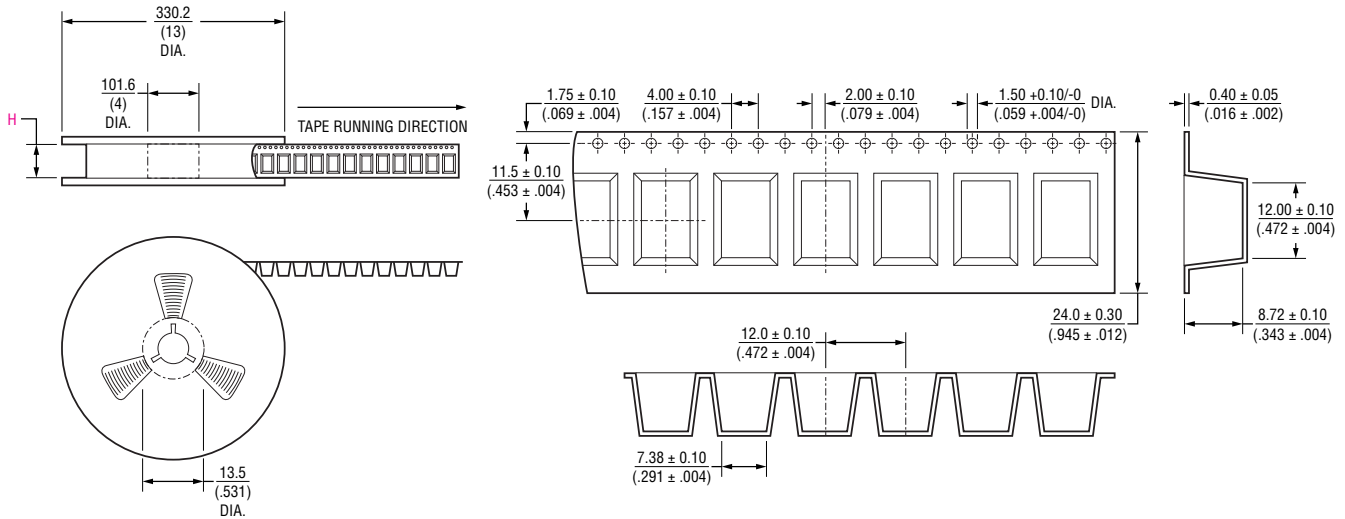
Users should verify actual device performance in their specific applications.

The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at [www.bourns.com/docs/legal/disclaimer.pdf](http://www.bourns.com/docs/legal/disclaimer.pdf).

## BPS160 Series – 10 mm Analog Pressure Sensor

**BOURNS®**

### Packaging Specifications



DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

**BOURNS®**

**Americas:** Tel: +1 951-781-5500 • Email: [americus@bourns.com](mailto:americus@bourns.com)

**Mexico:** Tel: +52-614-478-0400 • Email: [mexicus@bourns.com](mailto:mexicus@bourns.com)

**Asia:** Tel: +886-2-2562-4117 • Email: [asiacus@bourns.com](mailto:asiacus@bourns.com)

**EMEA:** Tel: +36 88 885 877 • Email: [eurocus@bourns.com](mailto:eurocus@bourns.com)

[www.bourns.com](http://www.bourns.com)

REV. 03/25

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at [www.bourns.com/docs/legal/disclaimer.pdf](http://www.bourns.com/docs/legal/disclaimer.pdf).

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for* [Board Mount Pressure Sensors](#) *category:*

*Click to view products by* [Bourns](#) *manufacturer:*

Other Similar products are found below :

[6407-249V-17343P](#) [6407-250V-09273P](#) [6407-250V-09343P](#) [80527-25.0H2-05](#) [80541-B00000150-01](#) [80541-B00000200-05](#) [80554-00700100-05](#) [93.631.4253.0](#) [93.932.4553.0](#) [136PC150G2](#) [136PC15A1](#) [142PC95AW71](#) [142PC05DW70](#) [15PSI-G-4V](#) [1805-01A-L0N-B](#) [93.632.7353.0](#) [93.931.4853.0](#) [SCDA120-XSC05DC](#) [185PC30DH](#) [26PCAFJ3G](#) [26PCCFJ3G](#) [26PCDFA3G](#) [ASCX15AN-90](#) [4426-015G](#) [4525-DS5A030DP](#) [DCAL401DN](#) [DCAL401GN](#) [4515-DS5A020DP](#) [6407-249V-09273P](#) [6407-249V-09343P](#) [6407-249V-17273P](#) [6407-250V-17273P](#) [6407-250V-17343P](#) [81794-B00001200-01](#) [82681-B00000100-01](#) [142PC100D](#) [80541-B00000150-05](#) [80736-B00000640-05](#) [81622-B00000100-01](#) [81809-B00000350-01](#) [82681-B00000080-05](#) [82689-00000030-24](#) [82691-00000100-24](#) [87639-00000040-01](#) [87639-B00000040-01](#) [87718-00000150-01](#) [88319-00001350-21](#) [CPC60DFC](#) [CPC150DFC](#) [CPC05DFC](#)