

### PERFORMANCE

Sensitivity<sup>1,2</sup> Channel A  
Channel B  
Measurement Range<sup>3</sup> Channel A  
Channel B  
ADC Bandwidth (-3dB)  
Frequency Range (± 5%)  
Frequency Range (± 10%)<sup>3</sup>  
Frequency Range (± 3 dB)<sup>3</sup>  
Resonant Frequency  
Mounted Resonance<sup>3</sup>  
Mounted Resonance Amplification<sup>3</sup>  
Broadband Resolution<sup>1</sup> (1 Hz to 10000 Hz)  
Non-Linearity<sup>4</sup>  
Transverse Sensitivity

ENGLISH	SI
4.3 % FSV/g	0.44% FSV/m/s <sup>2</sup>
8.4 % FSV/g	0.86 % FSV/m/s <sup>2</sup>
± 20 g pk	± 196 m/s <sup>2</sup> pk
± 10 g pk	± 98 m/s <sup>2</sup> pk
9.3 cpm to 1374000 cpm	0.155 Hz to 22900 Hz
120 cpm to 480000 cpm	2 Hz to 8000 Hz
90 cpm to 660000 cpm	1.5 Hz to 11000 Hz
54 cpm to 900000 cpm	0.9 Hz to 15000 Hz
≥ 1500000 cpm	≥ 25000 Hz
1044000 cpm	17400 Hz
200%	200%
0.0025 g pk	0.0245 m/s <sup>2</sup> pk
≤ 2 %	≤ 2 %
≤ 5 %	≤ 5 %

### ENVIRONMENTAL

Overload Limit (Shock)  
Temperature Range (Operating)  
Temperature Coefficient

7000 g pk	68647 m/s <sup>2</sup> pk
14 °F to 158 °F	-10 °C to +70 °C
0.10 % / °F	0.18 % / °C

### ELECTRICAL

Communication Standard  
Power Consumption<sup>3</sup>  
Internal ADC  
Supported Sample Rates

USB 2.0 Full Speed	USB 2.0 Full Speed
≤ 45 mA	≤ 45 mA
24 bit	24 bit
24 bit @ 48, 44.1, 32, 22.05, 16, 11.025, 8 kHz	24 bit @ 48, 44.1, 32, 22.05, 16, 11.025, 8 kHz
16 bit @ 48, 44.1, 32, 22.05, 16, 11.025, 8 kHz	16 bit @ 48, 44.1, 32, 22.05, 16, 11.025, 8 kHz

### MECHANICAL

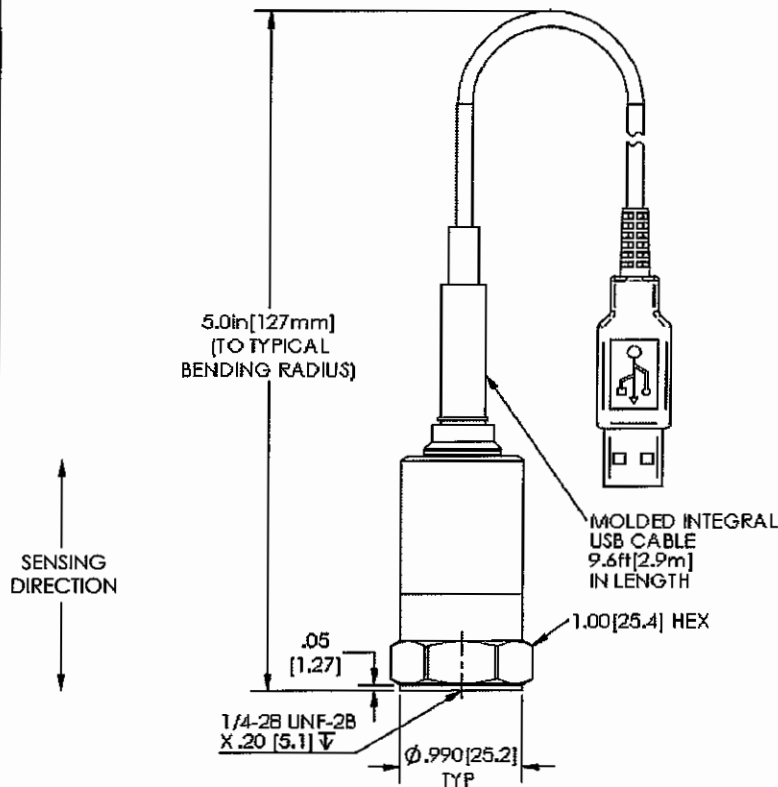
Size – Hex  
Size – Height  
Weight  
Mounting Thread  
Mounting Torque  
Sensing Element  
Sensing Geometry  
Housing Material  
Sealing  
Electrical Connector  
Electrical Connection Position  
Cable (Integral) Length

1.0 in	25.4 mm
2.6 in	66.0 mm
4.62 oz	131 gram
1/4-28 UNF	1/4-28 UNF
2 lbf ft to 5 lbf ft	2.7 N m to 6.8 N m
Piezoelectric Ceramic	Piezoelectric Ceramic
Shear	Shear
Stainless Steel	Stainless Steel
Welded Hermetic	Welded Hermetic
USB Type A Male	USB Type A Male
Top	Top
9.6 ft	2.9 m

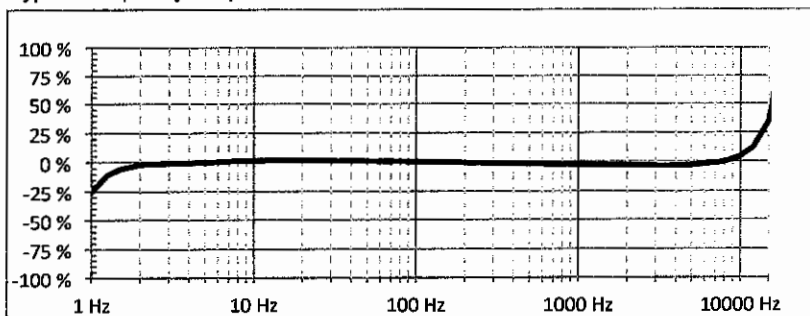
OPTIONAL ACCESSORIES:  
080A121 Flat Surface Magnet Base  
080A131 Curved Surface Magnet Base



### PRODUCT DRAWING



### Typical Frequency Response



In the interest of constant product improvement, specifications may change without notice.

All specifications are at room temperature unless otherwise specified.

Project Engineer: <i>TEC</i>	Product Manager: <i>MAP</i>	Mkt Team Leader: <i>Sho</i>	Spec Number: PS-0116
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**DIGIDUCER.COM**

Digital-Ready USB Accelerometer

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