

# Low profile IsoRing<sup>®</sup> piezovelocity transducer

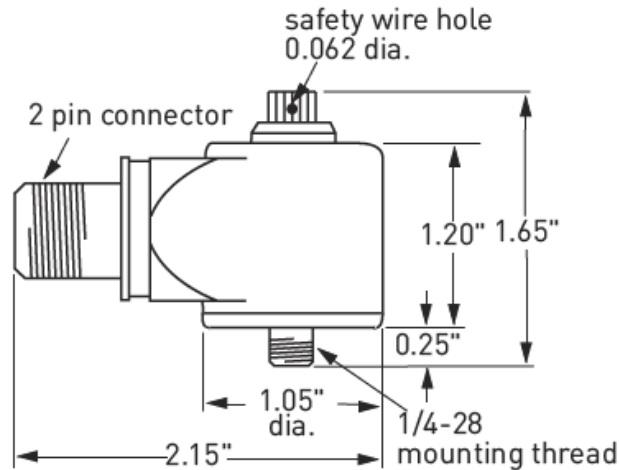
## 797V



### Key features

- Rugged design
- Internally integrated to velocity
- Eliminates distortion caused by high frequency signals
- Corrosion resistant
- ESD protection
- Reverse wiring protection
- Mounts in any orientation

### Certifications



Connections	
Function	Connector pin
power/signal	A
common	B
ground	shell

Note: Due to continuous process improvement, specifications are subject to change without notice.  
This document is cleared for public release.

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An Amphenol Company

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## 797V

### SPECIFICATIONS

<b>Sensitivity, ±10%, 25° C</b>	100 mV/in/sec
<b>Velocity range</b>	50 in/sec peak
<b>Amplitude nonlinearity</b>	5%
<b>Frequency response:</b>	
± 10%	2.0 - 3,500 Hz
± 3 dB	1.6 - 7,000 Hz
<b>Resonance frequency</b>	18 kHz
<b>Transverse sensitivity, max</b>	5% of axial
<b>Temperature response:</b>	
-50° C	-15%
+120° C	+10%
<b>Power requirement:</b>	
Voltage source	18 - 30 VDC
Current regulating diode	2 - 10 mA
<b>Electrical noise, equiv. g, nominal:</b>	
Broadband      2.5 Hz to 25 kHz	100 µin/sec
Spectral            10 Hz	10 µin/sec/√Hz
100 Hz	0.8 µin/sec/√Hz
1,000 Hz	0.1 µin/sec/√Hz
<b>Output impedance, 4 mA supply, the greater of:</b>	200 Ω or 5,000/f
<b>Bias output voltage</b>	10 VDC
<b>Grounding</b>	case isolated, internally shielded
<b>Temperature range</b>	-50 to +120° C
<b>Vibration limit</b>	250 g peak
<b>Shock limit</b>	2,500 g peak
<b>Electromagnetic sensitivity, equiv. in/sec</b>	50 µin/sec/gauss
<b>Sealing</b>	hermetic
<b>Base strain sensitivity</b>	0.004 in/sec/µstrain
<b>Sensing element design</b>	PZT ceramic / shear
<b>Weight</b>	148 grams
<b>Case material</b>	316L stainless steel
<b>Mounting</b>	1/4-28 captive socket head screw
<b>Output connector</b>	2 pin, MIL-C-5015 style
<b>Mating connector</b>	R6 type
<b>Recommended cabling</b>	J9T2A

### Contact

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### Accessories supplied:

- Calibration data (level 3)
- #12105-01 captive socket head (metric mounting available)

**Options:** Intrinsic safety certifications (consult factory)

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