

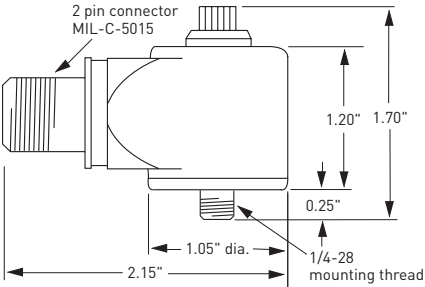


Model 797V Low profile, IsoRing® PiezoVelocity transducer PVT™



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



Dynamic

Sensitivity, ±10%, 25°C.....	100 mV/in/sec
Velocity range.....	50 in/sec peak
Amplitude nonlinearity.....	1%
Frequency response:	
±10%.....	2.0 - 3,500 Hz
±3 dB.....	1.6 - 7,000 Hz
Resonance frequency.....	18 kHz
Transverse sensitivity, max.....	5% of axial
Temperature response.....	-50°C -15%
	+120°C +10%

Electrical

Power requirement: voltage source.....	18 - 30 VDC
current regulating diode.....	2 - 10 mA
Electrical noise, equiv. in/sec:	
Broadband 2.5 Hz to 25 kHz.....	100 μin/sec
Spectral 10 Hz.....	10 μin/sec
100 Hz.....	0.8 μin/sec
1000 Hz.....	0.1 μin/sec
Output impedance, 4mA supply, the greater of.....	5,000/f or 200Ω
Bias output voltage.....	10 VDC
Grounding.....	case isolated, internally shielded

Environmental

Temperature range.....	-50 to 120°C
Vibration limit.....	250 g peak
Shock limit.....	2,500 g peak
Electromagnetic sensitivity, equiv. in/sec.....	50 μin/sec/gauss
Sealing.....	hermetic
Base strain sensitivity.....	0.004 in/sec/μstrain

Physical

Sensing element design.....	PZT ceramic / shear
Weight.....	148 grams
Case material.....	316L stainless steel
Mounting.....	1/4-28 captive socket head screw
Output connector.....	2 pin, MIL-C-5015 style
Mating connector.....	R6 type
Recommended cable.....	J9T2A

Connector pin	Function
Shell	ground
A	power/ signal
B	common

Accessories supplied: #12105-01 captive socket head (International customers specify mounting requirements); calibration data (level 3)
Options: Intrinsic safety certifications

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