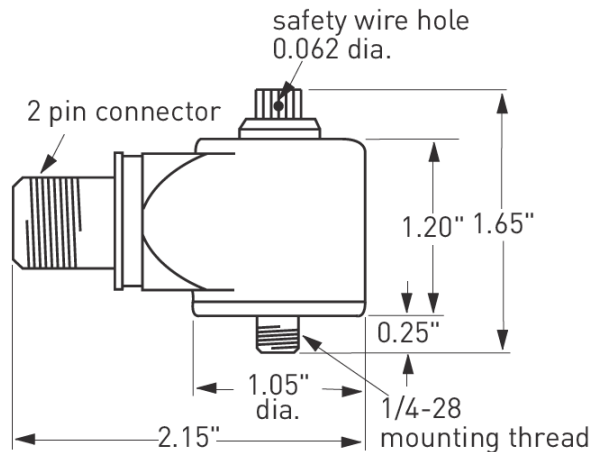


TEDS low profile, IsoRing piezovelocity transducer (PVT) ED-797V



Benefits

- Simplifies troubleshooting
- Reduces safety risks - no more climbing on machines to verify connections
- Reduces costs for set-up and tear-down
- No need to recalibrate replacement units - data acquisition system will recalibrate itself
- Designed to integrate with wireless transmitters and receivers
 - eliminates long cables
 - reduces installation, maintenance and upgrade costs of measurement and control systems



Function	Connector pin	Cable conductor color
ground	shell	shield
power/signal	A	white
common	B	black

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

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Key features

- Contains transducer electronic data sheet (IEEE 1451 - TEDS)
- Self-identifying
- Internally integrated to velocity
- Eliminates distortion caused by high frequency signals
- Corrosion resistant
- Rugged design
- Hermetically sealed
- ESD protection
- Reverse wiring protection
- Mounts in any orientation

Certifications



TEDS low profile, IsoRing piezovelocity transducer (PVT) ED-797V



SPECIFICATIONS

Sensitivity, $\pm 10\%$, 25° C	100 mV/in/sec
Acceleration range	50 in/sec peak
Amplitude nonlinearity	1%
Frequency response	$\pm 10\%$ 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%
Voltage source	18 - 30 VDC
Current regulating diode	2 - 10 mA
Electrical noise, equiv. in/sec	
Broadband	2.5 Hz to 25 kHz 100 μ in/sec
Spectral	10 Hz 10 μ in/sec/ $\sqrt{\text{Hz}}$
	100 Hz 0.8 μ in/sec/ $\sqrt{\text{Hz}}$
	1000 Hz 0.1 μ in/sec/ $\sqrt{\text{Hz}}$
Output impedance, 4 mA supply, the greater of	5,000/f or 100 Ω
Bias output voltage	10 VDC
Grounding	case isolated, internally shielded
Temperature range¹	-50 to +120° C
Vibration limit	250 g peak
Shock limit	2,500 g peak
Electromagnetic sensitivity, equiv. g	50 μ in/sec/gauss
Sealing	hermetic
Base strain sensitivity, max	0.004 g/ μ strain
Sensing element design	PZT ceramic / shear
Weight	153 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 cabling	J9T2A

Contact

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Accessories supplied:

- TEDS calibration data
- #12105-01 captive socket head (metric studs available upon request)

Notes: ¹ Temperature range is limited to -40°C to +85°C when using the IEEE 1451 - TEDS function.

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