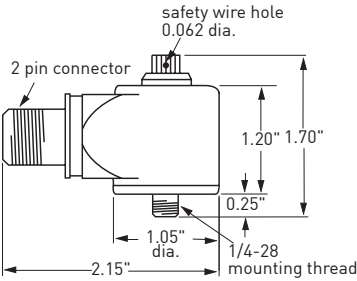


Model ED-797V
TEDS low profile, IsoRing PiezoVelocity
transducer PVT



Features

- Contains Transducer Electronic Data Sheet (IEEE 1451 - TEDS)
- Self-identifying
- Rugged design
- Internally integrated to velocity
- Eliminates distortion caused by high frequency signals
- Corrosion resistant
- ESD protection
- Reverse wiring protection
- Mounts in any orientation



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

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 ¹	-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.....	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 cable.....	J9T2A

Connector pin	Function	Cable conductor color
Shell	ground	Shield
A	power/ signal	White
B	common	Black

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

Accessories supplied: #12105-01 captive socket head (International customers specify mounting requirements); TEDS calibration data

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