

TEDS piezovelocity transducer

ED-797V

SPECIFICATIONS

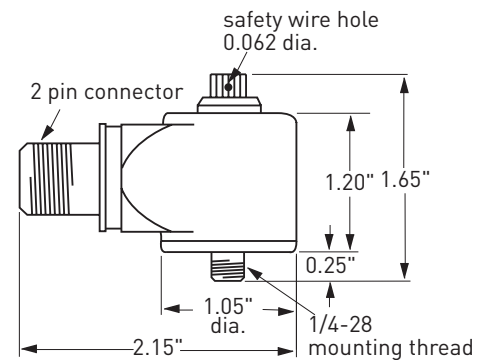
Sensitivity, $\pm 10\%$, 25°C		100 mV/in/sec
Velocity range		50 in/sec peak
Amplitude nonlinearity		1%
Frequency response:	$\pm 10\%$	2.0 - 3,500 Hz
	± 3 dB	1.6 - 7,000 Hz
Resonance frequency		18 kHz
Transverse sensitivity, max		5% of axial
Temperature response:	-50°C	-15%
	+120°C	+10%
Power requirement:		
Voltage source		18 - 30 VDC
Current regulating diode		2 - 10 mA
Electrical noise, equiv. in/sec:		
Broadband	2.5 Hz to 25 kHz	100 μ in/sec
Spectral	10 Hz	10 μ in/sec/ $\sqrt{\text{Hz}}$
	100 Hz	0.8 μ in/sec/ $\sqrt{\text{Hz}}$
	1,000 Hz	0.1 μ in/sec/ $\sqrt{\text{Hz}}$
Output impedance, 4-20 mA supply		the greater of: 100 Ω or 5,000/f
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. in/sec		50 μ in/sec/gauss
Sealing		hermetic
Base strain sensitivity		0.004 in/sec/ 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

Notes: ¹ Temperature range is limited to -40°C to +85°C when using the IEEE 1451 - TEDS function.
Accessories supplied: #12105-01 captive socket head; TEDS calibration data



Key features

- Contains transducer electronic data sheet (IEEE 1451 - TEDS)
- Simplifies troubleshooting, reducing safety risks and cost
- Self-identifying
- Designed to integrate with wireless transmitters & receivers
- Manufactured in ISO 9001 facility



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

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