Piezovelocity transducer



SPECIFICATIONS

Sensitivity, ±10%, 25°C	100 mV/in/sec
Velocity range	50 in/sec peak
Amplitude nonlinearity	1%
Frequency response: ±10% ±3 dB	2.0 - 3,500 Hz 1.6 - 7,000 Hz
Resonance frequency	18 kHz
Transverse sensitivity, max	5% of axial
Temperature response: -50°C +120°C	–15% +10%
Power requirement: Voltage source Current regulating diode	18 - 30 VDC 2 - 10 mA
Electrical noise, equiv. in/sec: Broadband 2.5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1,000 Hz	100 μin/sec 10 μin/sec/√Hz 0.8 μin/sec/√Hz 0.1 μin/sec/√Hz
Output impedance, nominal 4mA supply ¹	the greater of 5,000/f or 200 Ω
Bias output voltage	10 VDC
Grounding	case isolated, internally shielded
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
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 cabling	J9T2A
N-41D-4b	

Notes: $^{\rm 1}$ Both calculations are in units of Ohms, f is signal frequency in Hz Accessories supplied: #12105-01 captive socket head (metric mounting available); calibration data (level 3)

Certifications

All 797V models	797VE	
C€	FM	Class I, II, III, T4 Div 1 Groups A, B, C, D, E, F, G Div 2 Groups A, B, C, D, F, G

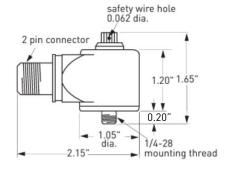
Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.





Key features

- · Certified version available for use in hazardous areas (model 797VE)
- Manufactured in ISO 9001 facility



Connections	
Function	Connector pin
power/signal	Α
common	В
ground	shell

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