Piezovelocity transducer

797V

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 t Spectral	o 25 kHz 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, 4-20 mA su	pply	the greater of: 200 Ω or 5,000/f
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, eq	uiv. 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

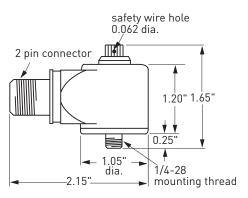
SENSING TECHNOLOGIES



Key features

 Certified version available for use in hazardous areas (model 797VE)

Manufactured in ISO 9001 facility



Accessories supplied: #12105-01 captive socket head (metric mounting available); calibration data (level 3)

Certifications

All 797V models	797VE	
CE	F M APPROVED	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.

Wilcoxon Sensing Technologies An Amphenol Company 98265 Rev.B.1 10/18 8435 Progress Drive Frederick, MD 21701 USA

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

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