Piezovelocity transducers

793V series

SPECIFICATIONS

	793V	793V-5
Sensitivity, ±10% ¹ , 25°C	100 mV/in/sec	500 mV/in/sec
Velocity range	50 in/sec peak	10 in/sec peak
Amplitude nonlinearity	2.5%	5%
Frequency response: ±10% ±3 dE		8.0 - 3,500 Hz 5.0 - 7,000 Hz
Resonance frequency, mounted, nom	inal 15 kHz	15 kHz
Transverse sensitivity, max	5% of axial	5% of axial
Temperature response: -50°C +80°C +120°C	+3%	-5% +3% -5%
Power requirement: Voltage source Current regulating diode		18 - 30 VDC 2 - 10 mA
Electrical noise, equiv. in/sec, nomina Broadband 2.5 Hz to 25 kH Spectral 10 H 100 H 1,000 H	z 100 μin/sec z 10 μin/sec/√Hz z 1.0 μin/sec/√Hz	40 µin/sec 4.0 µin/sec/√Hz 0.4 µin/sec/√Hz 0.05 µin/sec/√Hz
Output impedance, nominal 4 mA sup	oply 200 Ω	200 Ω
Bias output voltage, nominal	10 VDC	10 VDC
Grounding	case isolated, interna	ally shielded
Temperature range	–50° to +120°C	–50° to +120°C
Vibration limit	250 g peak	250 g peak
Shock limit	5,000 g peak	2,500 g peak
Electromagnetic sensitivity, equiv. in/	sec 25 µin/sec/gauss	25 µin/sec/gauss
Sealing	hermetic	hermetic
Base strain sensitivity	0.0005 in/sec/µstrain	0.0005 in/sec/µstrain
Weight	145 grams	145 grams
Case material	316L stainless steel	316L stainless steel
Mounting	1/4-28 tapped hole	1/4-28 tapped hole
Output connector	2 pin, MIL-C-5015	2 pin, MIL-C-5015
Mating connector	R6	R6
Recommended cabling	J9T2	J9T2
Notes 1 East 400 mb///inc. company '// 50/		0.400 5

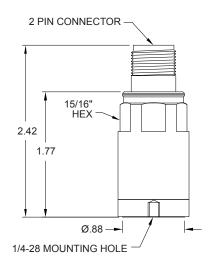
SENSING TECHNOLOGIES





Key features

- Intrinsically safe and radiation resistant options available for model 793V
- Available with ±5% sensitivity tolerance
- Manufactured in an ISO 9001 certified facility



Notes: ¹ For a 100 mV/ips sensor with \pm 5% sensitivity tolerance, order model 793V100-5. **Accessories supplied:** SF6 mounting stud (metric mounting available); calibration data (level 3)

Certifications

All 793V models	793VE	793V-33	793V-35
CE	Class I, II, III, T4 Div 1 Groups C, I E, F, G Div 2 Groups A, E C, D, F, G		Ex ia IIA T4 Ga Tamb: -50°C to 120°C

Connections	
Function	Connector pin
power/signal	А
common	В

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

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