Piezovelocity transducers

793V series

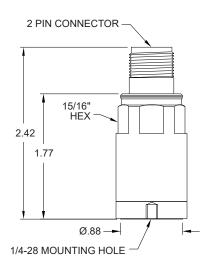
SPECIFICATIONS

	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 ^o ±3 d		8.0 - 3,500 Hz 5.0 - 7,000 Hz	
Resonance frequency, mounted, non	ninal 15 kHz	15 kHz	
Transverse sensitivity, max	5% of axial	5% of axial	
Temperature response: -50° +80° +120°	C +3%	-5% +3% -5%	
Power requirement: Voltage sourc Current regulating diod		18 - 30 VDC 2 - 10 mA	
Electrical noise, equiv. in/sec, nomin 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 su	pply 200 Ω	200 Ω	
Bias output voltage, nominal	10 VDC	10 VDC	
Grounding	case isolated, intern	case isolated, internally 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/µstraiı	n 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	



Key features

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



Connections	
Function	Connector pin
power/signal	A
common	В

Notes: ¹ For a 100 mV/ips sensor with ±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
CE		Class I, II, III, T4 Div 1 Groups C, D, E, F, G Div 2 Groups A, B, C, D, F, G	Class I, Div 1 Groups A, B, C, D

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

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