# **Piezovelocity transducers**

### 793V series

#### **SPECIFICATIONS**

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 dB	3.0 - 3,500 Hz 2.5 - 7,000 Hz	8.0 - 3,500 Hz 5.0 - 7,000 Hz	
Resonance frequency, mounted, nomin	al 15 kHz	15 kHz	
Transverse sensitivity, max	5% of axial	5% of axial	
Temperature response: -50°C +80°C +120°C	–5% +3% –5%	–5% +3% –5%	
Power requirement: Voltage source Current regulating diode	18 - 30 VDC 2 - 10 mA	18 - 30 VDC 2 - 10 mA	
Electrical noise, equiv. in/sec, nominal: Broadband 2.5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1,000 Hz	100 μin/sec 10 μin/sec/√Hz 1.0 μin/sec/√Hz 0.2 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 supp	y 200 Ω	200 Ω	
Bias output voltage, nominal	10 VDC	10 VDC	
Grounding		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/se	c 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 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

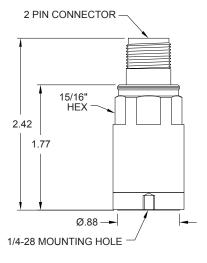
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All 793V models	793VE	793V-33	793V-35
CE	Class I, II, III, T4 Div 1 Groups C, D, E, F, G Div 2 Groups A, B, C, D, F, G	Class I, Div 1 Groups A, B, C, D	Ex is II 1 G Ex is IIA T4 Ga Tamb: -50°C to 120°C





#### **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	Α
common	В

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

## **Mouser Electronics**

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<u>Amphenol</u>: 793V-31 793V