# **Piezovelocity transducers**

# 793V series

### **SPECIFICATIONS**

		793V	793V-5
Sensitivity, ±10% <sup>1</sup> , 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%
	±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,	nominal	15 kHz	15 kHz
Transverse sensitivity, max		5% of axial	5% of axial
+	-50°C 80°C 20°C	-5% +3% -5%	-5% +3% -5%
Power requirement: Voltage so Current regulating of		18 - 30 VDC 2 - 10 mA	18 - 30 VDC 2 - 10 mA
10		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	supply	200 Ω	200 Ω
Bias output voltage, nominal		10 VDC	10 VDC
Grounding		case isolated, internal	ly 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	v. 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



### **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:** <sup>1</sup> 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	793V-35
CE	APPROVED DIV E, Div	ass I, II, III, T4 / 1 Groups C, D, F, G / 2 Groups A, B, D, F, G	Class I, Div 1 Groups A, B, C, D	Ex ia IIA T4 Ga Tamb: -50°C to 120°C

Connections		
Function	Connector pin	
power/signal	A	
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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