VE101 Series



Piezo Velocity Sensor, Top Exit 2 Pin Connector, 100 mV/in/sec, ±10%

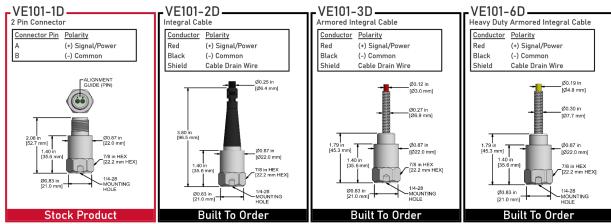




Product Features

100 mV/in/sec (4 mV/mm/sec) Sensitivity 1,5 - 12000 Hz (90 - 720,000 CPM) Frequency Response

- ► ±50 in/sec, (±270 mm/sec) Peak Dynamic Range
- ▶ 2 Pin MIL Connection or Integral Option
- ► Integrates to Velocity in the Sensor



Specifications	Standard		Metric	Specifications	Standard		Metric
Part Number	VE101		M/VE101	<u>Environmental</u>			
Sensitivity (±10%)		100 mV/in/sec		Temperature Range	-58 to 250°F		-50 to 121°C
Frequency Response (±3dB)	90-720,000 CPM		1,5-12000 Hz	Maximum Shock Protection		5,000 g, peak	
Frequency Response (±10%)	120-270,000 CPM		2,0-4500 Hz	Electromagnetic Sensitivity		CE	
Dynamic Range		± 50 in/sec. pk		Sealing		Welded, Hermetic	
Transverse Sensitivity		<5%		Submersible Depth	200 ft.		60 m
<u>Electrical</u>				Physical			
Settling Time		<4 Seconds		Sensing Element		PZT Ceramic	
Voltage Source (IEPE)		18-30 VDC		Sensing Structure		Shear Mode	
Constant Current Excitation		2-10 mA		Weight	3.2 oz		90 grams
Spectral Noise @ 10 Hz		25 μIPS/√Hz		Case Material		316L Stainless Steel	
Spectral Noise @ 100 Hz		2 μIPS/√Hz		Mounting		1/4-28	
Spectral Noise @ 1000 Hz		0.5 μIPS/√Hz		Connector (Non-Integral)		2 Pin MIL-C-5015	
Output Impedance		<100 ohm		Resonant Frequency	1,380,000 CPM		23000 Hz
Bias Output Voltage		10-14 VDC		Mounting Torque	2 to 5 ft. lbs.		2,7 to 6,8 Nm
Case Isolation		>10 ⁸ ohm		Mounting Hardware	1/4-28 Stud		M6x1 Adapter Stud
				Calibration Certificate		CA10	

Typical Frequency Response

