

VE101 Series

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



VIBRATION ANALYSIS HARDWARE



Product Features

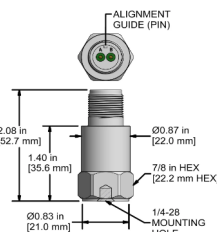
100 mV/in/sec (4 mV/mm/sec) Sensitivity

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

VE101-1D

2 Pin Connector

Connector Pin	Polarity
A	(+)
B	Signal/Power
	(-) Common

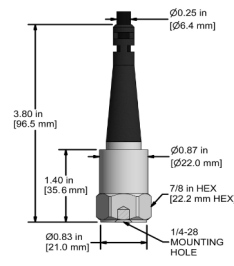


Stock Product

VE101-2D

Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire

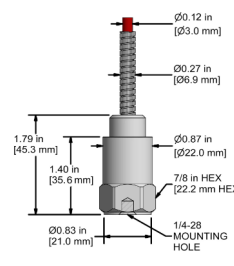


Built To Order

VE101-3D

Armored Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire

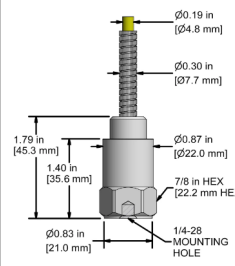


Built To Order

VE101-6D

Heavy Duty Armored Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire

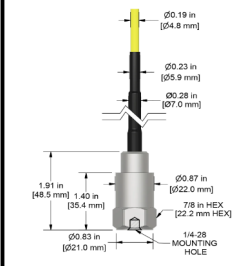


Built To Order

VE101-6N

FEP Jacketed Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	VE101	M/ or M8/VE101	Environmental		
Sensitivity ($\pm 10\%$)	100 mV/in/sec		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (± 3 dB)	90-720,000 CPM	1,5-12000 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range	± 50 in/sec. pk *Vsource ≥ 22 V, 12Vbias		Electromagnetic Sensitivity	CE	
Transverse Sensitivity	$\leq 5\%$		Sealing	Welded, Hermetic	
Saturation Time	$\leq 5\%$		Submersible Depth	200 ft.	60 m
Electrical			Physical		
Settling Time	≤ 4 Seconds		Sensing Element	PZT Ceramic	
Voltage Source	18-30 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	3.2 oz	90 grams
Spectral Noise @ 10 Hz	25 μ IPS/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	2 μ IPS/√Hz		Mounting Thread	1/4-28 Blind Tapped Hole	
Spectral Noise @ 1000 Hz	0.5 μ IPS/√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 Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
			Calibration Certificate	CA10	

Typical Frequency Response

