

VE136 Series

Piezo Velocity Sensor, Side Exit 2 Pin Connector, 500 mV/in/sec, $\pm 10\%$



VIBRATION ANALYSIS HARDWARE



Product Features

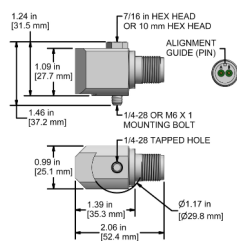
500 mV/in/sec (20 mV/mm/sec) Sensitivity

- ▶ ± 10 in/sec, Peak Dynamic Range
- ▶ 2 Pin MIL Connection or Integral Option
- ▶ Integrates to Velocity in the Sensor

VE136-1A

2 Pin Connector

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

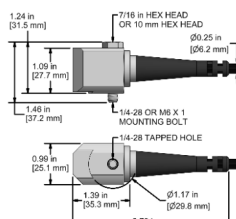


Stock Product

VE136-2C

Integral Cable

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

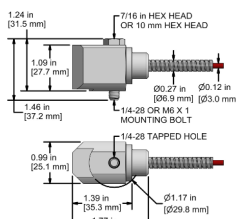


Built To Order

VE136-3C

Armored Integral Cable

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

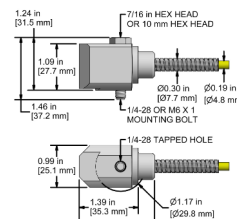


Built To Order

VE136-6C

Heavy Duty Armored Integral Cable

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



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	VE136	M/VE136	<u>Environmental</u>		
Sensitivity ($\pm 10\%$)	500 mV/in/sec		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response ($\pm 3\text{dB}$)	60-420,000 CPM	1,0-7000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response ($\pm 10\%$)	120-240,000 CPM	2,0-4000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 10 in/sec. pk		Sealing	Welded, Hermetic	
Transverse Sensitivity	$*V_{\text{source}} \geq 22\text{V}, 12\text{V}_{\text{bias}}$	$\leq 5\%$	Submersible Depth	200 ft.	60 m
<u>Electrical</u>			<u>Physical</u>		
Settling Time	<4 Seconds		Sensing Element	PZT Ceramic	
Voltage Source	18-30 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	5.1 oz	145 grams
Spectral Noise @ 10 Hz	200 $\mu\text{IPS}/\sqrt{\text{Hz}}$		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	6 $\mu\text{IPS}/\sqrt{\text{Hz}}$		Connector (Non-Integral)	2 Pin MIL-C-5015	
Spectral Noise @ 1000 Hz	0.7 $\mu\text{IPS}/\sqrt{\text{Hz}}$		Resonant Frequency	1,320,000 CPM	22000 Hz
Output Impedance	<100 ohm		Mounting Torque	2 to 5 ft. lbs	2,7 to 6,8 Nm
Bias Output Voltage	10-14 VDC		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Case Isolation	>10 ⁸ ohm		Calibration Certificate	CA10	

Typical Frequency Response

