

VE101 Series

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



VIBRATION ANALYSIS HARDWARE



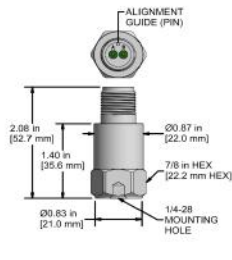
Product Features

- 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

VE101-1D

2 Pin Connector

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



Stock Product

VE101-2D

Integral Cable

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

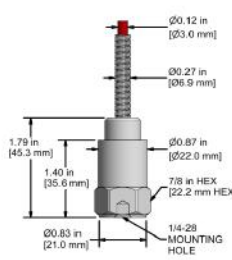


Built To Order

VE101-3D

Armored Integral Cable

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

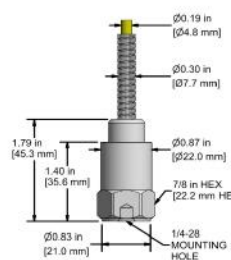


Built To Order

VE101-6D

Heavy Duty Armored Integral Cable

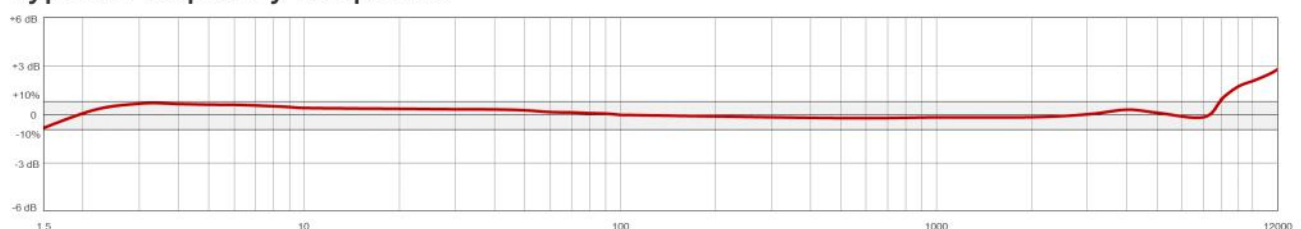
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	VE101	M/VE101	Environmental		
Sensitivity (±10%)	100 mV/in/sec		Operating 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
Electrical			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 Thread	1/4-28 Blind Tapped Hole	
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 Supplied	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate	CA10	

Typical Frequency Response



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VE102 Series

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



VIBRATION ANALYSIS HARDWARE



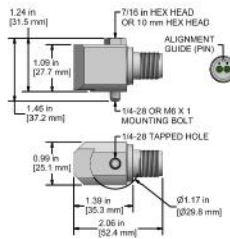
Product Features

100 mV/in/sec (4 mV/mm/sec) Sensitivity
1,5 - 7000 Hz (90 - 420,000 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

VE102-1D 2 Pin Connector

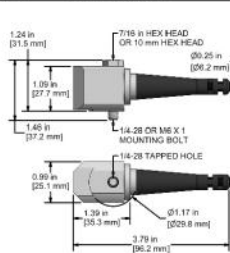
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

VE102-2D Integral Cable

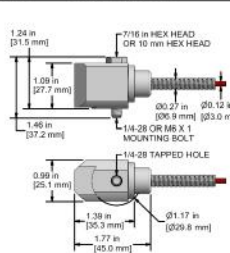
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

VE102-3D Armored Integral Cable

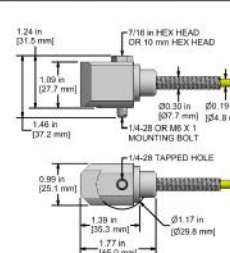
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

VE102-6D Heavy Duty Armored Integral Cable

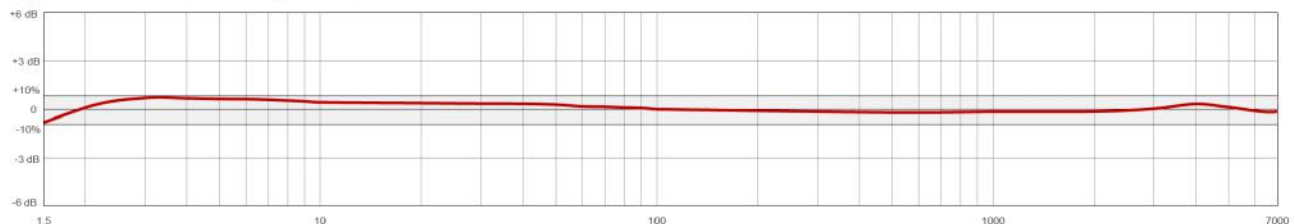
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	VE102	M/VE102	Environmental		
Sensitivity (±10%)	100 mV/in/sec		Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	90-420,000 CPM	1,5-7000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	120-240,000 CPM	2,0-4000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 50 in/sec. pk		Sealing	Welded, Hermetic	
Electrical			Submersible Depth	200 ft.	60 m
Settling Time	<4 seconds		Physical		
Voltage Source (IEPE)	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	25 µIPS/√Hz		Weight	5.1 oz	145 grams
Spectral Noise @ 100 Hz	2 µIPS/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	0.5 µIPS/√Hz		Connector (Non-Integral)	2 Pin MIL-C-5015	
Output Impedance	<100 ohm		Resonant Frequency	1,320,000 CPM	22000 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 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response



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VE135 Series

Piezo Velocity Sensor, Top Exit 2 Pin Connector, 500 mV/in/sec, ±10%



VIBRATION ANALYSIS HARDWARE



Product Features

- 500 mV/in/sec (20 mV/mm/sec) Sensitivity
- 1,0-10000 Hz (60-600,000 CPM) Frequency Response
- ▶ ±10 in/sec, Peak Dynamic Range
- ▶ 2 Pin MIL Connection or Integral Option
- ▶ Integrates to Velocity in the Sensor

VE135-1A

2 Pin Connector

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

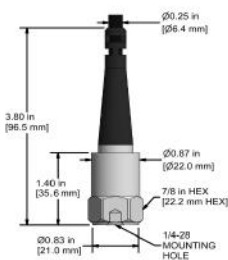


Stock Product

VE135-2C

Integral Cable

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

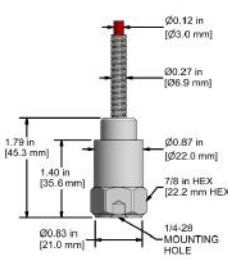


Built To Order

VE135-3C

Armored Integral Cable

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

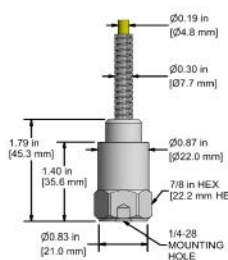


Built To Order

VE135-6C

Heavy Duty Armored Integral Cable

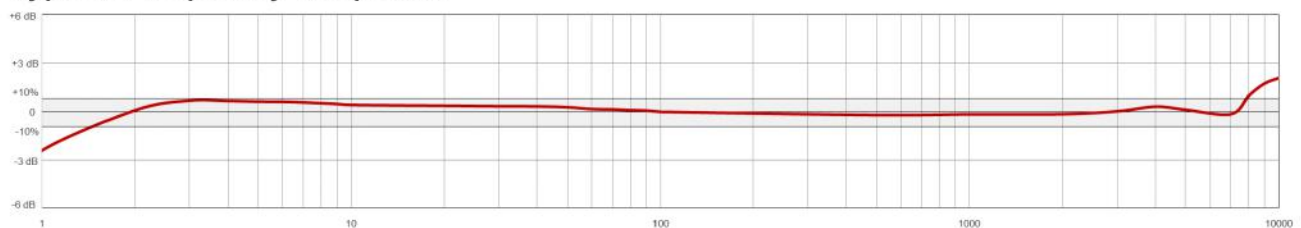
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	VE135	M/VE135	Environmental		
Sensitivity (±10%)	500 mV/in/sec		Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	60-600,000 CPM	1,0-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	120-300,000 CPM	2,0-5000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 10 in/sec. pk		Sealing	Welded, Hermetic	
Electrical			Submersible Depth	200 ft.	60 m
Settling Time	<4 Seconds		Physical		
Voltage Source (IEPE)	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	200 μ IPS/√Hz		Weight	3.2 oz	90 grams
Spectral Noise @ 100 Hz	6 μ IPS/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	0.7 μ IPS/√Hz		Mounting Thread	1/4-28 Blind Tapped Hole	
Output Impedance	<100 ohm		Connector (Non-Integral)	2 Pin MIL-C-5015	
Bias Output Voltage	10-14 VDC		Resonant Frequency	1,320,000 CPM	22000 Hz
Case Isolation	>10 ⁸ ohm		Mounting Torque	2 to 5 ft. lbs	2.7 to 6.8 Nm
			Mounting Hardware Supplied	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate	CA10	

Typical Frequency Response



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VE136 Series

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



VIBRATION ANALYSIS HARDWARE



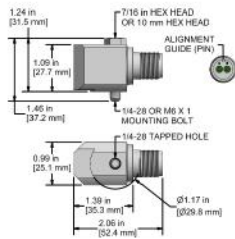
Product Features

- 500 mV/in/sec (20 mV/mm/sec) Sensitivity
- 1,0-7000 Hz (60-420,000 CPM) Frequency Response
- ▶ ±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

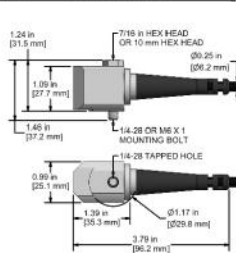


Stock Product

VE136-2C

Integral Cable

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

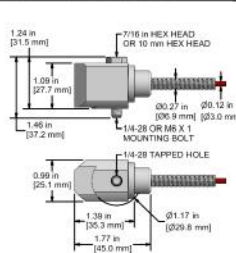


Built To Order

VE136-3C

Armored Integral Cable

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

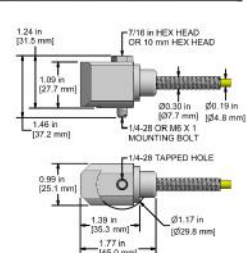


Built To Order

VE136-6C

Heavy Duty Armored Integral Cable

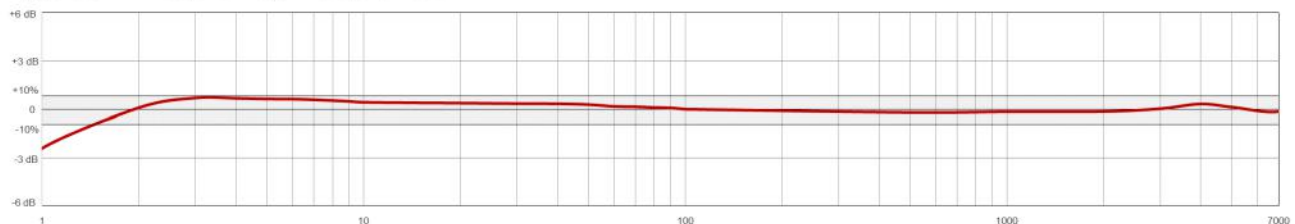
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	VE136	M/VE136	Environmental		
Sensitivity (±10%)	500 mV/in/sec		Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	60-420,000 CPM	1,0-7000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	120-240,000 CPM	2,0-4000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 10 in/sec. pk		Sealing	Welded, Hermetic	
Electrical			Submersible Depth	200 ft.	60 m
Settling Time	<4 Seconds		Physical		
Voltage Source (IEPE)	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	200 μ IPS/√Hz		Weight	5.1 oz	145 grams
Spectral Noise @ 100 Hz	6 μ IPS/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	0.7 μ IPS/√Hz		Connector (Non-Integral)	2 Pin MIL-C-5015	
Output Impedance	<100 ohm		Resonant Frequency	1,320,000 CPM	22000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	2 to 5 ft. lbs	2,7 to 6,8 Nm
Case Isolation	>10 ⁹ ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response



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