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TECHNOLOGY GROUP

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# VE135 Series

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

VIBRATION ANALYSIS HARDWARE




## Product Features

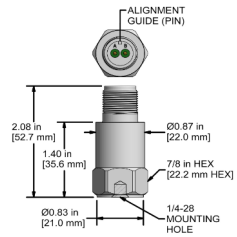
**500 mV/in/sec (20 mV/mm/sec) Sensitivity**

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

### VE135-1A

2 Pin Connector

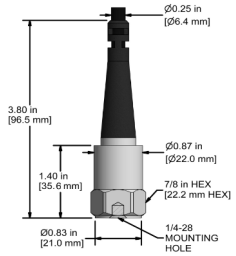
| Connector Pin | Polarity |
|---|---|
| A | (+) Signal/Power |
| B | (-) Common |




### VE135-2C

Integral Cable

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

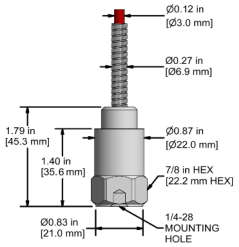



Built To Order

### VE135-3C

Armored Integral Cable

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

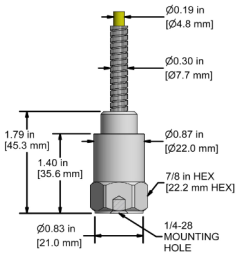



Built To Order

### VE135-6C

Heavy Duty Armored Integral Cable

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

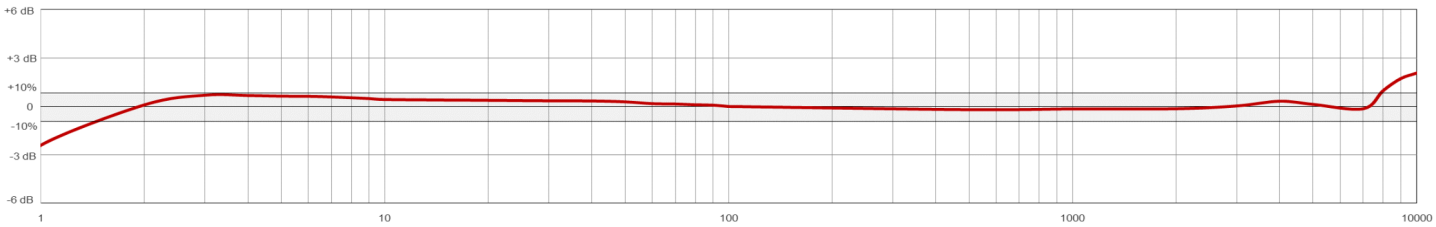



Built To Order

| Specifications | Standard | Metric |
|---|---|---|
| Part Number | VE135 | M/ or M8/VE135 |
| Sensitivity (±10%) | 500 mV/in/sec | |
| Frequency Response (±3dB) | 60-600,000 CPM | 1,0-10000 Hz |
| Frequency Response (±10%) | 120-300,000 CPM | 2,0-5000 Hz |
| Dynamic Range | ± 10 in/sec. pk<br>*Vsource ≥ 22V, 12Vbias | |
| **Electrical** | | |
| Settling Time | <4 Seconds | |
| Voltage Source | 18-30 VDC | |
| Constant Current Excitation | 2-10 mA | |
| Spectral Noise @ 10 Hz | 200 µ IPS/√Hz | |
| Spectral Noise @ 100 Hz | 6 µ IPS/√Hz | |
| Spectral Noise @ 1000 Hz | 0.7 µ IPS/√Hz | |
| Output Impedance | <100 ohm | |
| Bias Output Voltage | 10-14 VDC | |
| Case Isolation | >$10^8$ ohm | |

| Specifications | Standard | Metric |
|---|---|---|
| **Environmental** | | |
| Operating Temperature Range | -58 to 250 °F | -50 to 121 °C |
| Maximum Shock Protection | 5,000 g, peak | |
| Electromagnetic Sensitivity | CE | |
| Sealing | Welded, Hermetic | |
| Submersible Depth | 200 ft. | 60 m |
| **Physical** | | |
| Sensing Element | PZT Ceramic | |
| Sensing Structure | Shear Mode | |
| Weight | 3.2 oz | 90 grams |
| Case Material | 316L Stainless Steel | |
| Mounting Thread | 1/4-28 Blind Tapped Hole | |
| Connector (Non-Integral) | 2 Pin MIL-C-5015 | |
| Resonant Frequency | 1,320,000 CPM | 22000 Hz |
| Mounting Torque | 2 to 5 ft. lbs | 2,7 to 6,8 Nm |
| Mounting Hardware Supplied | 1/4-28 Stud | M6x1 or M8x1.25 Adapter Stud |
| Calibration Certificate | CA10 | |

## Typical Frequency Response



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