



VE135 Series

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



Product Features

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

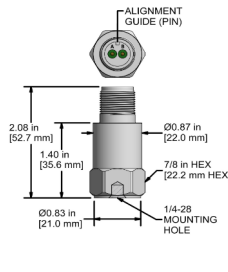
1,0-10000 Hz (60-600,000 CPM) Frequency Response

- ▶ ±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 |

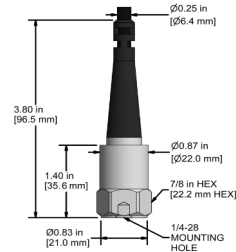


Stock Product

VE135-2C

Integral Cable

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

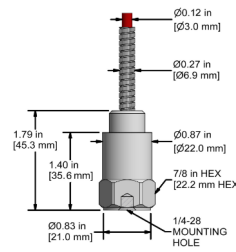


Built To Order

VE135-3C

Armored Integral Cable

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

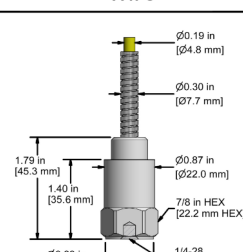


Built To Order

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/ or M8/VE135 | <u>Environmental</u> | | |
| 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 *Vsource ≥ 22V, 12Vbias | | Sealing | Welded, Hermetic | |
| <u>Electrical</u> | | | Submersible Depth | 200 ft. | 60 m |
| Settling Time | <4 Seconds | | <u>Physical</u> | | |
| 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 | |
| | | | Resonant Frequency | 1,320,000 | 22000 Hz |