VT104 Series

Dual Output, Piezoelectric Velocity Sensor, Velocity/Temperature, Side Exit Connector/Cable, 100 mV/in/sec, 10 mV/°C

Product Features

- Velocity and Temperature Output in One Sensor
- High Performance, Dual Output Sensor

VT104-1D

1-Pin Connector

- Connector Pin: A (+) Signal, Power B (-) Common C (+) Temperature Voltage

- Specifications
  - Part Number: VT104 M/VT104
  - Vibration Sensitivity (±10%) 100 mV/in/sec 4 mV/mm/sec
  - Frequency Response (±3dB): 90-420,000 CPM 1.5-7000 Hz
  - Frequency Response (±10%): 120-240,000 CPM 2.0-4000 Hz
  - Dynamic Range (Peak): ±50 in/sec ±1270 mm/sec
  - Temperature Measurement Range: 37º to 250º F 3º to 121º C
  - Temperature Output: 10 mV/°C
  - Settling Time: <4 seconds
  - Voltage Source (IEPE): 18-30 VDC
  - Constant Current Excitation: 2-10 mA
  - Spectral Noise @ 10 Hz: 25 µIPS/√Hz
  - Spectral Noise @ 100 Hz: 2 µIPS/√Hz
  - Spectral Noise @ 1000 Hz: 0.5 µIPS/√Hz
  - Output Impedance: <100 ohm
  - Bias Output Voltage: 10-14 VDC

VT104-2D

Integral Cable

- Specifications
  - Part Number: VT104 M/VT104
  - Vibration Sensitivity (±10%) 100 mV/in/sec 4 mV/mm/sec
  - Frequency Response (±3dB): 90-420,000 CPM 1.5-7000 Hz
  - Frequency Response (±10%): 120-240,000 CPM 2.0-4000 Hz
  - Dynamic Range (Peak): ±50 in/sec ±1270 mm/sec
  - Temperature Measurement Range: 37º to 250º F 3º to 121º C
  - Temperature Output: 10 mV/°C
  - Settling Time: <4 seconds
  - Voltage Source (IEPE): 18-30 VDC
  - Constant Current Excitation: 2-10 mA
  - Spectral Noise @ 10 Hz: 25 µIPS/√Hz
  - Spectral Noise @ 100 Hz: 2 µIPS/√Hz
  - Spectral Noise @ 1000 Hz: 0.5 µIPS/√Hz
  - Output Impedance: <100 ohm
  - Bias Output Voltage: 10-14 VDC

VT104-3D

Armed/Integral Cable

- Specifications
  - Part Number: VT104 M/VT104
  - Vibration Sensitivity (±10%) 100 mV/in/sec 4 mV/mm/sec
  - Frequency Response (±3dB): 90-420,000 CPM 1.5-7000 Hz
  - Frequency Response (±10%): 120-240,000 CPM 2.0-4000 Hz
  - Dynamic Range (Peak): ±50 in/sec ±1270 mm/sec
  - Temperature Measurement Range: 37º to 250º F 3º to 121º C
  - Temperature Output: 10 mV/°C
  - Settling Time: <4 seconds
  - Voltage Source (IEPE): 18-30 VDC
  - Constant Current Excitation: 2-10 mA
  - Spectral Noise @ 10 Hz: 25 µIPS/√Hz
  - Spectral Noise @ 100 Hz: 2 µIPS/√Hz
  - Spectral Noise @ 1000 Hz: 0.5 µIPS/√Hz
  - Output Impedance: <100 ohm
  - Bias Output Voltage: 10-14 VDC

Ordering Information

- Standard: VT104-1D VT104-2D VT104-3D
- Metric: M/VT104-1DM/VT104-2DM/VT104-3D

- Specifications
  - Environmental
    - 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 (VT104-2D): 200 ft. 60 m
  - Physical
    - Sensing Element: PZT Ceramic
    - Sensing Structure: Shear Mode
  - Weight: 5.6 oz 159 grams
  - Case Material: 316L Stainless Steel
  - Mounting Hole: 1/4-28 Captive Bolt
  - Mounting Torque: 2 to 5 ft. lbs. 2,7 to 6.8 Nm
  - Mounting Hardware: 1/4-28 Captive Bolt
  - Calibration Certificate: CA10

- Actual Product Size Shown

Cable Terminations: L Z

Backed by our Unconditional Lifetime Warranty