# 9100VO-HO2 Sensor
## Velocity High Output

### FEATURES:
- Industrial ruggedness
- Eliminates distortion caused by high frequency signals
- Corrosion-resistant
- Internally integrated to velocity
- Ultra low-noise electronics for clear signals at very low vibration levels
- Miswiring protection

### SPECIFICATIONS (PRELIMINARY)

#### DYNAMIC
- **Sensitivity**: ±5%, 25°C = 1080 mV/(in/sec)
- **Velocity Range**: 5 in/sec peak
- **Amplitude Nonlinearity**: ±10% = 6.5 - 2500 Hz
- **Frequency Response, nominal**: ±3dB = 1% 4 - 4800 Hz
- **Resonance Frequency, mounted, nominal**: 10 kHz
- **Transverse Sensitivity, max**: 8% of axial
- **Temperature Response**: See graph

#### ELECTRICAL
- **Power Requirement**:
  - Voltage source: 18 - 30 VDC
  - Current regulating diode: 2 - 10 mA
- **Electrical Noise, equiv. nominal**:
  - Broadband: 2.5 Hz to 25 kHz = 100 (µin/sec)/root Hz
  - Spectral: 10 Hz = 6.5(µin/sec)/root Hz
  - 100 Hz = 0.6(µin/sec)/root Hz
  - 1,000 Hz = 0.05(µin/sec)/root Hz
- **Absolute Phase shift, nom., the greater of**:
  - Not available
- **Output Impedance, nominal 4mA supply the greater of**:
  - 100000/f or 10000 Ohms
- **Bias Output Voltage, nominal**: 10 VDC
- **Grounding**: Case isolated, internally shielded

#### ENVIRONMENTAL
- **Temperature Range (mounting surface)**: -50 to 120°C (Note 2)
- **Vibration Limit**: 250 g peak
- **Shock Limit**: 2,500 g peak
- **Electromagnetic Sensitivity, equiv. in/sec**: 25 µin/sec/gauss
- **Sealing**: Hermetic
- **Base Strain Sensitivity**: 0.001 in/sec/µstrain

#### PHYSICAL
- **Weight**: 240 grams
- **Case Material**: 316L stainless steel
- **Mounting**: 1/4 - 28 tapped hole
- **Output Connector**: MIL-C-5015 style, 2-pin
- **Pin A**: Signal, Power
- **Pin B**: Common
9100VO-HO2 Sensor - Velocity High Output

NOTES:
1. A maximum current of 6 mA is recommended for operating temperatures in excess of 100°C. 2. Maximum temperature for interconnect cable - 80°C

ACCESSORIES SUPPLIED: mounting stud, Calibration Data

* Ordering Information
Model Description P/N
9100VO-HO2 Velocity Output accelerometer - 1080 mV/in/sec, 4 - 4800 Hz (3dB), top exit, Mil Spec connector. E44445