

Velocity Sensor

SV6300 Piezoelectric

2 Pin
Threaded Connector



Features/Benefits

- Immune to cross axis vibration
- Mount in any axis
- No phase shift for balancing
- Solid-state velocity output

Applications

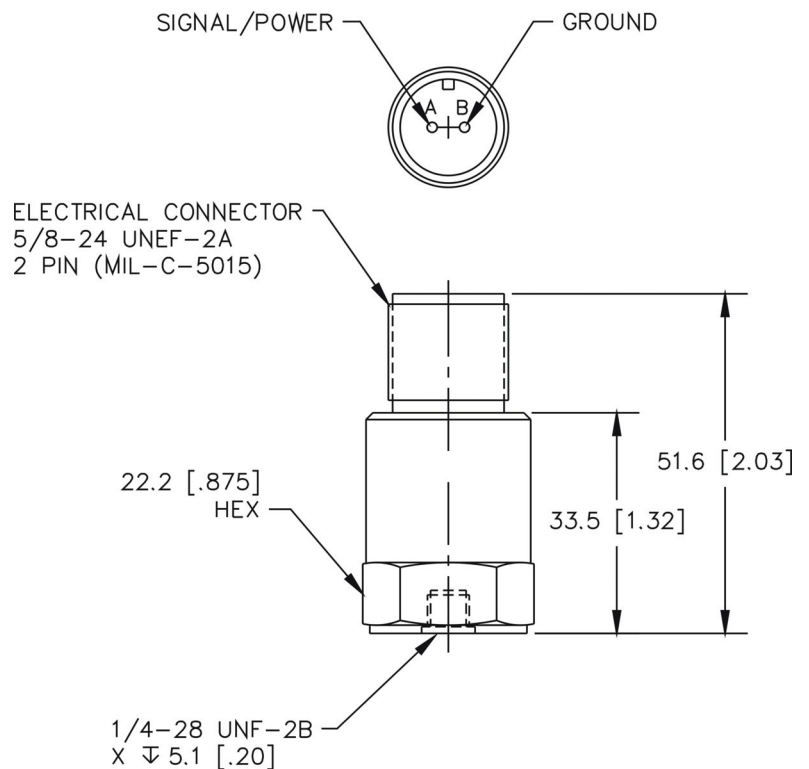
- Cooling Towers
- Motors
- Pumps
- Fans
- Engines
- Blowers
- Gear Boxes

This product is intended to replace a moving coil velocity transducer with a solid-state sensor. It consists of a temperature stabilized piezoelectric sensor and an amplifier packaged together in a stainless steel case. It is capable of sensing a wide range of vibration frequencies on a variety of machines. The built-in amplifier provides a high level, low impedance output for connection to a 4-20mA transmitter. The SV6300 is not position sensitive.

Specifications

Sensitivity (10%): 100 mV/ips
Frequency Response: 2 Hz - 8 KHz
Resonant Frequency: 20 KHz
Cross Axis Sensitivity: $\leq 5\%$
Case Material: 316 SS
Connector Type: 2 Pin Hermetic Plug
Environmental: Hermetic Seal
Mounting Thread: 1/4-28 UNF
Optional Stud: 1/4-28 UNF to M6 x 1.0
Sensing Element/Structure:
 Ceramic/Shear
Protection: RFI/ESD
Case Isolation: 10^8 ohms
Excitation Current: 2 to 10 mA
Excitation Voltage: 18 to 28 VDC
Full Scale Out Voltage: ± 5 volts
Output Bias: 8 to 14 volts
Settling Time: 10 seconds max.
Shock Limit: 5,000 g
Temperature Limits:
 $-54/121^\circ\text{C}$ ($-65/250^\circ\text{F}$)

Weight & Dimensions



Weight: 91 gm (0.2 lbs.)

How To Select

SV6300 - **A** **B** **C**
0 1

A **Hazard Area Rating**
0 = None






B **Mounting Stud**
0 = 1/4 - 28 UNF
1 = M6 x 1.0

C **Connector Type**
1 = 2 pin Hermetic plug

Note: Connections are non polarity sensitive (IPT®).

SEISMIC PRODUCTS

Mating Connector/Cable Assemblies

	<p>8978-111-XXXX, Splashproof Cable Assembly Two (2) pin socket connector with integral, molded splash proof boot with 6.4 mm (0.25") diameter polyurethane jacketed cable with twisted shielded pair wires. xxx.x = Cable length in meters.</p>
	<p>9334-111-XXXX-YYYY, Splashproof Cable Assembly w/Stainless Steel Armor Two (2) pin socket connector with integral, molded splash proof boot with 7.1 mm (0.28") diameter, SST armored jacket with cable, twisted shielded pair wires. xxx.x = Armor length in meters. yyy.y = Cable length in meters.</p>
	<p>8978-211-XXXX, Cable Assembly Two (2) pin socket connector with cable strain relief with 6.4 mm (0.25") diameter polyurethane jacketed cable with twisted shielded pair wires. xxx.x = Cable length in meters. Note: All 8978 connector/cable assemblies rated to 121°C (250°F) max.</p>
	<p>9334-211-XXXX-YYYY, Cable Assembly, w/Stainless Steel Armor Two (2) pin socket connector with 7.1 mm (0.28") diameter, SST armored jacket with cable, twisted shielded pair wires. xxx.x = Armor length in meters. yyy.y = Cable length in meters.</p>
	<p>8978-200-0000, Connector Assembly Two (2) pin socket connector with cable strain relief, no cable.</p>

[Additional Accessories - Page 2.28 - 2.29](#)