

## OVERVIEW

The SV6300 is capable of sensing a wide range of vibration frequencies, this velocity sensor is suitable for use on a variety of machines and can replace a moving coil velocity transducer with a solid-state sensor. A built-in amplifier provides a high-level, low-impedance output for connection to a signal conditioner for a 4-20 mA output or to a vibration monitor. The SV6300 consists of a temperature stabilized piezo-electric sensor and amplifier, packaged in a stainless steel case designed to operate continually in a wet, corrosive environment. The sensing circuit is electrically isolated to 500V<sub>RMS</sub>. Although shipped standard with a 1/4-28 to 1/4-28 mounting stud, other mounting configurations are available.



## FEATURES AND BENEFITS

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

## APPLICATIONS

- Motors
- Gear Boxes
- Pumps
- Fans
- Cooling Tower
- Engines

## SPECIFICATIONS

**Sensitivity (10%):** 100 mV/ips (3.94 mV/mm/s)

**Frequency Response:** 2 Hz - 8 KHz

**Resonant Frequency:** 20 kHz

**Cross Axis Sensitivity:** <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<sup>8</sup> Ω

**Excitation Current:** 2 to 10 mA

**Excitation Voltage:** 18 to 28 V<sub>DC</sub>

**Full Scale Out Voltage:** ±5 V

**Output Bias:** 8 to 14 volts

**Settling Time:** 10 seconds max.

**Shock Limit:** 5,000 g

**Temperature Limits:** -54/121°C (-65/250°F)

**Hazard Rating:** CSA, ATEX and IECEx

## HOW TO ORDER

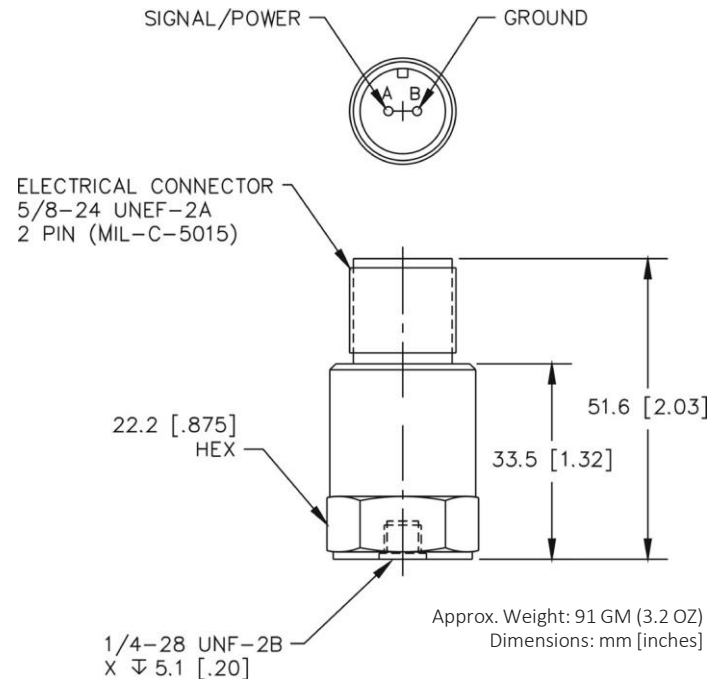
SV6300 - **A** - **B** - **C**

<b>A Hazardous Area Certification</b>	
0	None
5	CSA US/CA Class I Div 2, Grps A-D, T4 (non incndive) CSA US/CA Class I Div 1, Grps A-D, T4 (I.S. w/barrier) ATEX/IECEX Ex nA IIC T4 Gc (non incndive) ATEX/IECEX Ex ia IIC T4 Ga (I.S. w/barrier)

<b>B Mounting Stud</b>	
5	1/4 x 28 UNF & M6 x 1.0

<b>C Connector Type</b>	
1	2-pin Hermetic Plug

## WEIGHT &amp; DIMENSIONS



## ACCESSORIES

**8978-111-XXXX, Splash proof 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.

**9334-111-XXXX-YYYY, Splash proof Cable Assembly with SS 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 = Cable length in meters. YYY.Y = Armor length in meters.

**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. Note: All 8978 connector/cable assemblies rated to 121°C (250°F) max. XXX.X = Cable length in meters.

**9334-211-XXXX-YYYY, Cable Assembly with SS Armor**

Two (2) pin socket connector with 7.1 mm (0.28") diameter, SST armored jacket with cable, twisted shielded pair wires. XXX.X = Cable length in meters. YYY.Y = Armor length in meters.

**8978-200-0000, Connector Assembly**

Two (2) pin socket connector with cable strain relief, no cable.