

OVERVIEW

The SV6300 is capable of sensing a wide range of vibration frequencies, this velocity sensor is ideal 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_{RMS}. 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: 10⁸ Ω

Excitation Current: 2 to 10 mA

Excitation Voltage: 18 to 28 V_{DC}

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

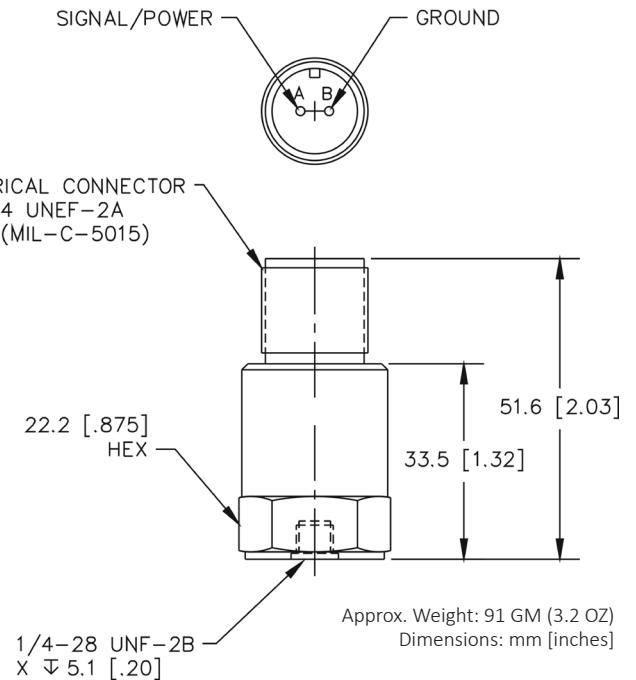
SV6300 - **A** - **B** - **C**

A	Hazardous Area Certification
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	Mounting Stud
5	1/4 x 28 UNF & M6 x 1.0

C	Connector Type
1	2-pin Hermetic Plug

WEIGHT & 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. YYYY = 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. YYYY = Armor length in meters.



8978-200-0000, Connector Assembly

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