



**SEISMIC VELOCITY SENSORS
FOR SERVICE UP TO 121°C (250°F)**



Model SV6300 - Low Frequency

Piezo-electric accelerometer together with an integrator provides velocity response down to 2 Hz. When casing displacement monitoring is desired, any of these 3 models be needed as velocity inputs to receivers with only one stage of integration.

SV Series seismic sensors convert machine casing movement to an electrical signal proportional to vibration velocity. Three different models are offered, each useful in different applications.

Features

- Piezo-velocity response to 2 Hz
- Industrial, solid-state design
- Casing surface mounting stud

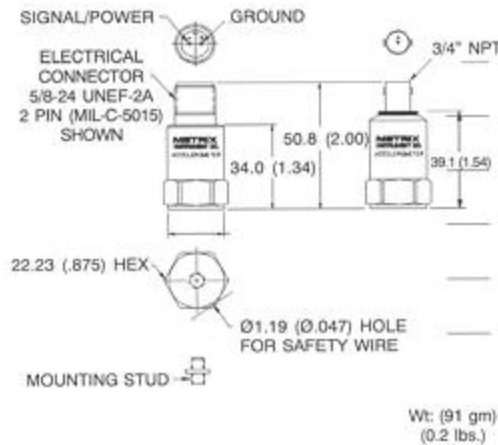
Applications

- Cooling Tower Gear Boxes
- Antifriction Brgs. (e.g. Ball Brgs)
- Motors
- Cooling Tower Gear Boxes
- Paper Machines
- Process Pumps
- Large Fans
- Turbocharger Engine Vibration

Specifications

- Sensitivity (+/-5%):** 100 mV/ips
- Frequency Response:** 2 Hz-12 KHz
- Resonant Frequency:** 18 KHz
- Cross Axis Sensitivity:** ≤5%
- Case Material:** 316L Stainless Steel
- Connector Type:** 2 Pin Hermetic Plug
- Environmental:** Hermetic Seal
- Mounting thread:** See How To Order
- Sensing Element/Structure:** Ceramic/Shear
- Protection:** RF/ESD
- Case Isolation:** 10⁸ 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°C (-65/250°F)
- Electromagnetic Compatibility:**

Weight & Dimensions



Typical Mounting



System Block Diagram

SEISMIC MONITORING	SENSOR	SIGNAL CONDITIONER	ALARM MONITOR
THIS PRODUCT	VELOCITY SENSOR	SIGNAL CONDITIONER	4-20 mA MONITOR
		VIBRATION INPUT MONITOR	
MOUNTING LOCATION	MACHINE CASE BEARING HOUSING	IN ENCLOSURE UP TO 300 m (1000 FT)	REMOTE UP TO 1.25 km (4000 FT)

CE Mark.

How To Order... Piezo-Velocity Sensor

Model **A** **B**
SV6300 - 0
Standard:
SV6300 - 0 **0** **1**

- A** **Mounting Stud**
 0 = 1/4-28 UNF-2B (0.2 inch)
 1 = M6 x 0.75
- B** **Sensitivity**
 1 = 100 mV/ips
 2 = 500 mV/ips

How to Order... Mating Connector/Cable Assemblies

MODEL **A** **B**
8978 - - **Accelerometer Connector/Cable Assembly**
Standard:
8978 - **2** **0** **0** - **0** **0** **0** **0**

A **Accelerometer Connector/Cable Type/Termination Code**

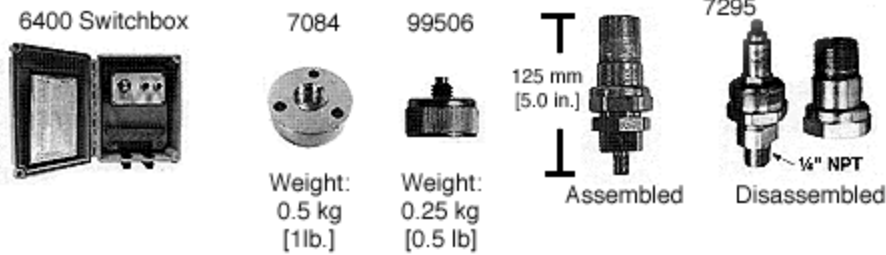
- 1 1 1 Two (2) pin socket connector with integral, molded splash proof boot / 0.25" diameter polyurethane jacketed cable with twisted, shielded pair wires / Pigtail termination.
- 2 0 0 Two (2) pin socket connector only with cable strain relief (cable and termination by customer)
- 2 1 1 Two (2) pin socket connector with cable strain relief / 0.25" diameter polyurethane jacketed cable with twisted, shielded pair wires / Pigtail termination.



B **Cable Length (in .10 m increments)**
 0 0 3 0 = 3.0 m (9.8 ft.)
 0 0 5 0 = 5.0 m (16.3 ft.)

NOTE: All 8978 connector/cable assemblies rated to 121° C (250° F)

Accessories



Part Number	Name	Models Used With	Description	Housing Material
<input type="checkbox"/> 7295-002	Accelerometer EP Housing	SV6300-00X	Physical protection for and access to 1/4"-28 mount accelerometers. Designed rain tight & ex-proof for CSA Class 1, Grps A-D, Div.1. 1/4" NPT stud for mounting to machine case. 1" NPT top conduit union.	Zinc Plated Steel
<input type="checkbox"/> 7084-002	Flange Mount Adaptor	7295-002	For surface mounting of 7295 housing. 1/4" NPT center hole. 3 equally spaced 6.6 (.26) dia. mount holes on 38 (1.50) dia. circle.	Stainless Steel
<input type="checkbox"/> 99506-020	Magnetic Mount Adaptor	SV6300-00X	Strong rare earth magnet provides up to 16 kg [35 lbs] pull force for temporary mounting of 1/4"-28 tapped accelerometers. Housing has 1/4"-28 center hole & includes sensor mounting stud.	Stainless Steel
<input type="checkbox"/> 99506-021	Magnetic Mount Adaptor	SV6300-01X	Same as 99506-020 except metric version. Housing has M6X1 center hole and comes with matching sensor mounting stud.	Stainless Steel
9061-	Bulk Cable	8978-200-0000	.250" dia. bulk cable with twisted, shielded pair wires. For customer attachment to mating connector P/N 8978-200-0000. Specify -XXXX in 1.0 m increments (e.g. 9061-0250=25.0 m).	Polyurethane Jacketed
See 6400 . Click "Add to shopping cart" to save other items first.	Sensor Switch Box	Any SV Series Velocity Sensor	Switch selectable BNC with up to 12 inputs for connection to a portable data collector/FFT analyzer. NEMA 4X (IP 65) enclosure.	Non-metallic Composite

Once you have chosen your model and accessories you may proceed.

[Back To Previous](#) | [Home Page](#) | [Catalog - Table of Contents](#)