

HS-100 Accelerometer

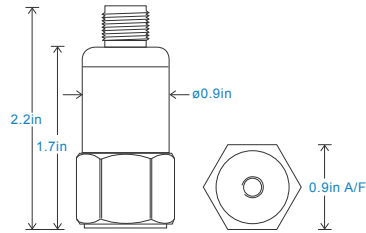
AC acceleration output via M12 Connector

Key Features

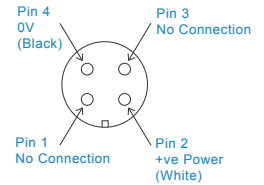
- Most common seller
- For use with data collector
- Customizable features

Industries

Building services, Pulp and Paper,
Mining, Metals, Utilities, Automotive,
Water, Pharmaceutical



Connection Details



Technical Performance

Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 72°F
Frequency Response	90cpm (1.5Hz) to 600kcpm (10kHz) $\pm 5\%$ 30cpm (0.5Hz) to 720kcpm (12kHz) $\pm 10\%$ 12cpm (0.2Hz) to 900kcpm (15kHz) $\pm 3\text{dB}$
Isolation	Base isolated
Range	see: 'How To Order' table
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	8Nm
Weight	106gms (nominal) body only
Shielded Cable Assembly	HS-AC010 - straight HS-AC011 - right angle
Mounting Threads	see: 'How To Order' table

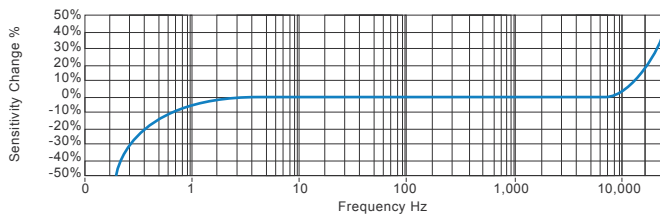
Electrical

Excitation Voltage:	18-30Volts DC
Electrical Noise	0.1mg max
Current Range	0.5mA to 8mA
Bias Voltage	10 - 12 Volts DC
Settling Time	2 seconds
Output Impedance	200 Ohms max.
Case Isolation	$>10^8$ Ohms at 500 Volts

Environmental

Operating Temperature Range	-67 to 284°F
Sealing	IP67
Maximum Shock	5000g
EMC	EN61326-1:2013

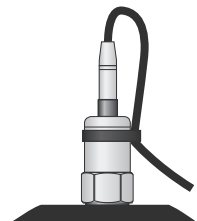
Typical Frequency Response (at 100mV/g)



Applications

Fans, Motors, Pumps, Compressors,
Centrifuges, Conveyors, Air Handlers,
Gearboxes, Rolls, Dryers, Presses,
Cooling, VAC, Spindles, Machine Tooling,
Process Equipment

Vibration sensor should be firmly fixed to a flat surface
(spot face surface may be needed to be produced and
cable anchored to sensor body.)



How To Order

Product Prefix	Product Series										
HS - Hansford Sensors	100 - Industrial Vibration Sensor										
		H	S	1	0	0	X	X	X	X	X
		Extra Options (if required)		Sensitivity		Range	Resonant Frequency		Cable/Connector		Mounting Threads
		F - Filtered		010 - 10mV/g		$\pm 800\text{g}$	1,680kcpm (28kHz)		01 - PUR		01 - 1/4-28" UNF Female
		I - Intrinsically Safe		030 - 30mV/g		$\pm 250\text{g}$	1,560kcpm (26kHz)		02 - Braided		02 - 1/4-28" UNF Male
		L - 316L Stainless Steel		050 - 50mV/g		$\pm 160\text{g}$	1,440kcpm (24kHz)		07 - Silicon		05 - Quick Fit Female
		RT - Temperature Output PT100		100 - 100mV/g		$\pm 80\text{g}$	1,320kcpm (22kHz)		08 - Flame Retardant		06 - M6 x 1mm Male
		T - Temperature Output		250 - 250mV/g		$\pm 32\text{g}$	1,200kcpm (20kHz)		50 - 2 Pin MS		08 - M8 x 1.25mm Male
		Y - 5% tolerance on sensitivity		500 - 500mV/g		$\pm 16\text{g}$	1,080kcpm (18kHz)		54 - M12		10 - M10 x 1.5mm Male



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We reserve the right to alter the specification of this product without prior notice

TS107U.5

