

HS-100 Accelerometer

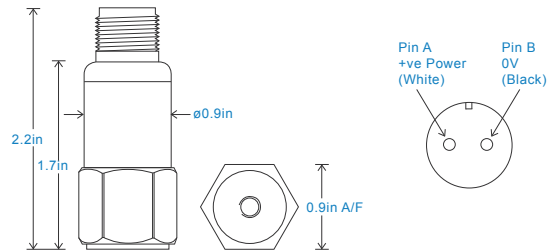
AC acceleration output via 2 Pin MS Connector

Key Features

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

Industries

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



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	120cpm (2Hz) to 600kcpm (10kHz) $\pm 5\%$ 90cpm (1.5Hz) to 720kcpm (12kHz) $\pm 10\%$ 48cpm (0.8Hz) to 900kcpm (15kHz) $\pm 3dB$
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	5.9ft. lbs
Weight	3.7 oz. (nominal) body only
Shielded Cable Assembly Connector	see: www.hansfordsensors.com for options HS-AA004 - non-booted HS-AA053 or HS-0054 - booted
Mounting Threads	see: 'How To Order' table

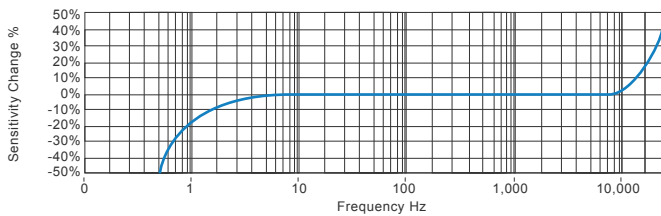
Electrical

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	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

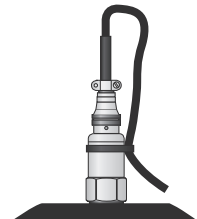
Typical Frequency Response (at 100mV/g)



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	Options									
HS - Hansford Sensors	100 - Industrial Vibration Sensor										
H	S	1	0	0	X	X	X	X	X	X	X
Extra Options (if required)		Sensitivity	Range	Resonant Frequency		Cable/Connector			Mounting Threads		
F - Filtered	010 - 10mV/g	$\pm 800g$	2,040kcpm (34kHz)	01 - PUR			01 - 1/4-28" UNF Female				
I - Intrinsically Safe	030 - 30mV/g	$\pm 250g$	1,980kcpm (33kHz)	02 - Braided			02 - 1/4-28" UNF Male				
L - 316L Stainless Steel	050 - 50mV/g	$\pm 160g$	1,920kcpm (32kHz)	07 - Silicon			05 - Quick Fit Female				
RT - Temperature Output PT100	100 - 100mV/g	$\pm 80g$	1,800kcpm (30kHz)	08 - Flame Retardant			06 - M6 x 1mm Male				
T - Temperature Output	250 - 250mV/g	$\pm 32g$	1,680kcpm (28kHz)	50 - 2 Pin MS			08 - M8 x 1.25mm Male				
Y - 5% tolerance on sensitivity	500 - 500mV/g	$\pm 16g$	1,560kcpm (26kHz)	54 - M12			10 - M10 x 1.5mm Male				



www.hansfordsensors.com
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We reserve the right to alter the specification of this product without prior notice

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