# HS-100S Accelerometer

AC acceleration output via Flame Retardant Cable

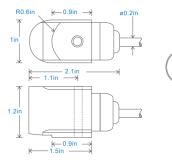
## **Key Features**

- · For use with data collector
- · Side entry for easy access
- Customisable features

#### Industries

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





Screen to case +ve Power (White) 0V (Black)

**Connection Details** 

Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Compression
	Nominal 80Hz at 72°F	Mounting Torque	5.9ft. Lbs
Frequency Response	120cpm (2Hz) to 600kcpm (10kHz) ± 5%	Mounting Bolt provided	see: 'How To Order' table x 1.2in long
	90cpm (1.5Hz) to 720kcpm (12kHz) ± 10%	Weight	7.2 oz. (nominal) body only
	48cpm (0.8Hz) to 900kcpm (15kHz) ± 3dB	Maximum Cable Length	3,280 ft.
Isolation	Base isolated	Standard Cable Length	16 ft.
Range	see: 'How To Order' table	Screened Cable	Flame Retardant - length to be specified with order
Transverse Sensitivity	Less than 5%	Screened Cable Assembly	see: www.hansfordsensors.com for options
		Connector	n/a
		Mounting Threads	see: 'How To Order' table x 1.2in long

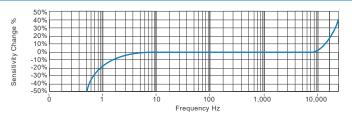
Electrical	
Excitation Voltage	18-30Volts DC
Electrical Noise	0.1mg max
Current Range	0.5mA to 8mA
Bias Voltage	10 - 12 Volts DC
Settling Time	2 seconds
Output Impedance	200 Ohms max
Case Isolation	>10^8 Ohms at 500 Volts

# Environmental

**Operating Temperature Range** Sealing Maximum Shock EMC

#### -40 to 212°F IP65 5000g EN61326-1:2013

# Typical Frequency Response (at 100mV/g)



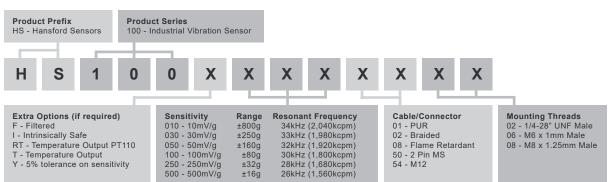
## Applications

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





www.hansfordsensors.com

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

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