

HS-100T Accelerometer

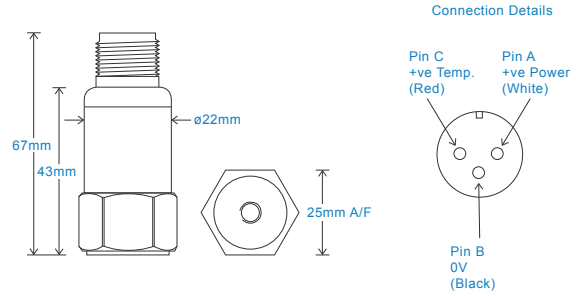
AC acceleration and temperature output via 3 Pin MS Connector

Key Features

- Temperature output
- For use with data collector
- Customisable features

Industries

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



Technical Performance

Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 22°C
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) $\pm 5\%$ 1.5Hz (90cpm) to 12kHz (720kcpm) $\pm 10\%$ 0.8Hz (48cpm) to 15kHz (900kcpm) $\pm 3\text{dB}$
Isolation	Base isolated
Range	see: 'How To Order' table
Temperature Output	10 mV/°C standard 100°C - Option 140°C
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	8Nm
Weight	125gms (nominal)
Screened Cable Assembly	see: www.hansfordsensors.com for options
Connector	HS-AA005 - non-booted HS-AA068 or HS-0069 - booted
Mounting Threads	see: 'How To Order' table

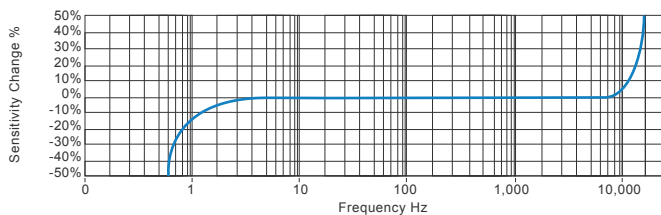
Electrical

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	-55 to 140°C
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

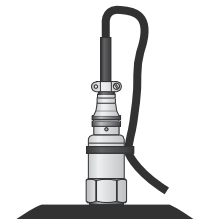
Typical Frequency Response (at 100mV/g)



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	Cable Length (if integral cable)												
HS - Hansford Sensors	100 - Industrial Vibration Sensor	QXX - length specified in metres												
H	S	1	0	0	T	X	X	X	X	X	X	X	X	X
Extra Options (if required)		Sensitivity		Range	Resonant Frequency		Cable/Connector			Mounting Threads				
F - Filtered		010 - 10mV/g		$\pm 800\text{g}$	28kHz (1,680kcpm)		01 - PUR			01 - ¼-28" UNF Female				
I - Intrinsically Safe		030 - 30mV/g		$\pm 250\text{g}$	26kHz (1,560kcpm)		03 - Braided			02 - ¼-28" UNF Male				
L - 316L Stainless Steel		050 - 50mV/g		$\pm 160\text{g}$	24kHz (1,440kcpm)		07 - Silicon			05 - Quick Fit Female				
T - Temperature Output		100 - 100mV/g		$\pm 80\text{g}$	22kHz (1,320kcpm)		15 - Flame Retardant			06 - M6 x 1mm Male				
Y - 5% tolerance on sensitivity		250 - 250mV/g		$\pm 32\text{g}$	20kHz (1,200kcpm)		52 - 3 Pin MS			08 - M8 x 1.25mm Male				
		500 - 500mV/g		$\pm 16\text{g}$	18kHz (1,080kcpm)		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
TS006.7

