

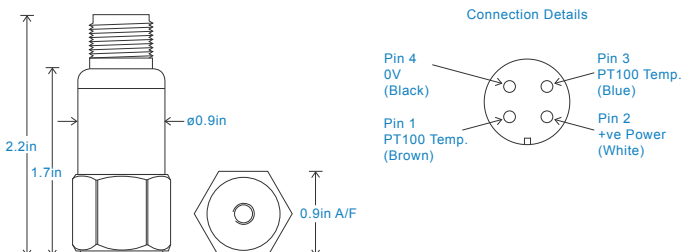
HS-100RT Accelerometer

Key Features

- For use with data collector
- Temperature output PT100
- Customizable features

Industries

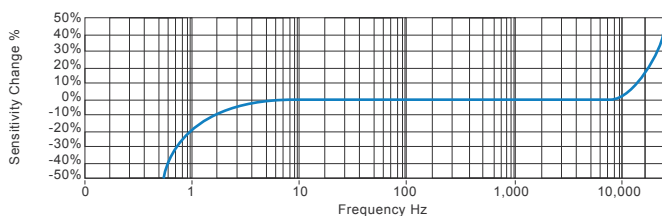
Building services, Pulp and Paper,
Mining, Metals, Utilities, Automotive,
Water, Pharmaceutical



Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table $\pm 10\%$	Sensing Element/Construction	PZT/Compression
	Nominal 80Hz at 72°F	Mounting Torque	8Nm
Frequency Response	120cpm (2Hz) to 600kcpm (10kHz) $\pm 5\%$	Weight	106gms (nominal) body only
	90cpm (1.5Hz) to 720kcpm (12kHz) $\pm 10\%$	Sheilded Cable Assembly	HS-AC010 - straight
	48cpm (0.8Hz) to 900kcpm (15kHz) $\pm 3\text{dB}$		HS-AC011 - right angle
Isolation	Base isolated	Mounting Threads	see: 'How To Order' table
Range	see: 'How To Order' table		
Temperature Output	PT100 (100 Ohms)		
Transverse Sensitivity	Less than 5%		

Electrical		Environmental	
Excitation Voltage	18-30 Volts DC	Operating Temperature Range	-67 to 284°F
Electrical Noise	0.1mg max	Sealing	IP67
Current Range	0.5mA to 8mA	Maximum Shock	5000g
Bias Voltage	10 - 12 Volts DC	EMC	EN61326-1:2013
Settling Time	2 seconds		
Output Impedance	200 Ohms max.		
Case Isolation	>10 ⁸ Ohms at 500 Volts		

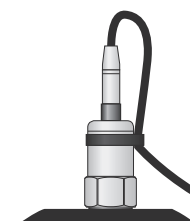
Typical Frequency Response (at 100mV/g)



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 HS - Hansford Sensors		Product Series 100 - Industrial Vibration Sensor						Cable Length QXX - length specified in metres						
H	S	1	0	0	R	T	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered I - Intrinsically Safe L - 316L Stainless Steel RT - Temperature Output PT100 S - 90° Side Exit Y - 5% tolerance on sensitivity		Sensitivity 010 - 10mV/g 030 - 30mV/g 050 - 50mV/g 100 - 100mV/g 250 - 250mV/g 500 - 500mV/g		Range ±800g ±250g ±160g ±80g ±32g ±16g		Resonant Frequency 34kHz (2,040cpm) 33kHz (1,980cpm) 32kHz (1,920cpm) 30kHz (1,800cpm) 28kHz (1,680cpm) 26kHz (1,560cpm)			Cable/Connector 01 - PUR 54 - M12		Mounting Threads 01 - ¼-28" UNF Female 02 - ¼-28" UNF Male 05 - Quick Fit Female 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male 10 - M10 x 1.5mm Male			



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

TS103U.8

