

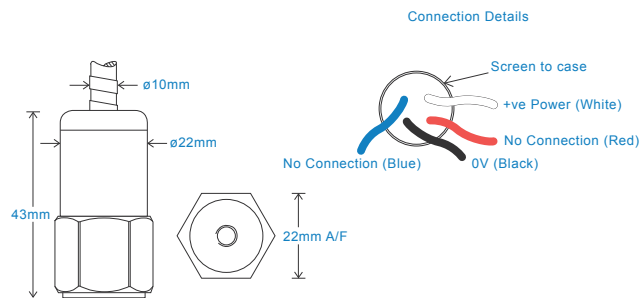
HS-100 Accelerometer

Key Features

- Resistant to oil
- Protective Conduit
- Premium design

Industries

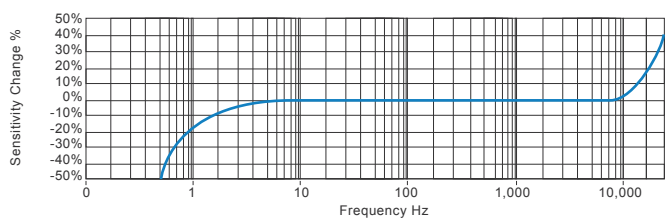
Building services, Pulp and Paper,
Mining, Metals, Utilities, Automotive,
Water, Pharmaceutical, Wind



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 22°C	Mounting Torque	8Nm
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) $\pm 5\%$	Weight	106gms (nominal) body only
	1.5Hz (90cpm) to 12kHz (720kcpm) $\pm 10\%$	Screened Cable Assembly	see: www.hansfordsensors.com for options
	0.8Hz (48cpm) to 15kHz (900kcpm) $\pm 3\text{dB}$	Maximum Cable Length	1000 metres
Isolation	Base isolated	Standard Cable Length	5 metres
Range	see: 'How To Order' table	Mounting Threads	see: 'How To Order' table
Transverse Sensitivity	Less than 5%	Conduit Material	304 Stainless Steel
		Conduit Length	Conduit Length is approx. 0.5m shorter than the cable

Electrical		Environmental	
Excitation Voltage:	18-30Volts DC	Operating Temperature Range	-55 to 140°C
Electrical Noise	0.1mg max	Sealing	IP65
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		Product Series				Cable Length (if integral cable)									
HS - Hansford Sensors		100 - Industrial Vibration Sensor				QXX - length specified in metres									
H	S	1	0	0	S	X	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		±800g		27kHz (1,620kcpm)		30C - FEP with Protective Conduit				02 - ¼-28" UNF Male			
L - 316L Stainless Steel		030 - 30mV/g		±250g		25kHz (1,500kcpm)						06 - M6 x 1mm Male			
RT - Temperature Output PT100		050 - 50mV/g		±160g		23kHz (1,380kcpm)						08 - M8 x 1.25mm Male			
S - 90° Side Exit		100 - 100mV/g		±80g		21kHz (1,260kcpm)									
T - Temperature Output		250 - 250mV/g		±32g		19kHz (1,140kcpm)									
Y - 5% tolerance on sensitivity		500 - 500mV/g		±16g		17kHz (1,020kcpm)									