

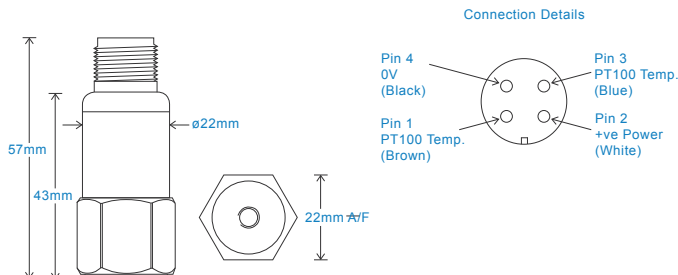
AC acceleration and PT100 temperature output via M12 Connector

Key Features

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

Industries

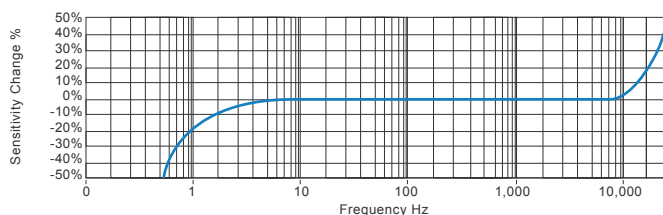
Building services, Pulp and Paper,
Mining, Metals, Utilities, Automotive,
Water, Pharmaceutical



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 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	HS-AC010 - straight
	0.8Hz (48cpm) to 15kHz (900kcpm) $\pm 3\text{dB}$		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	-55 to 140°C
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		

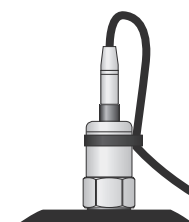
Typical Frequency Response (at 100mV/g)



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



www.hansfordsensors.com
sales@hansfordsensors.com

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

TS103.10

