

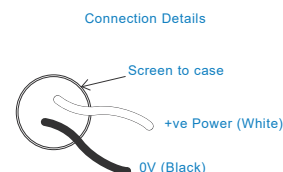
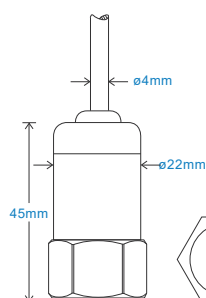
AC acceleration output via Flame Retardant Cable

Key Features

- For use with data collector
- Premium design
- Low smoke, halogen free cable

Industries

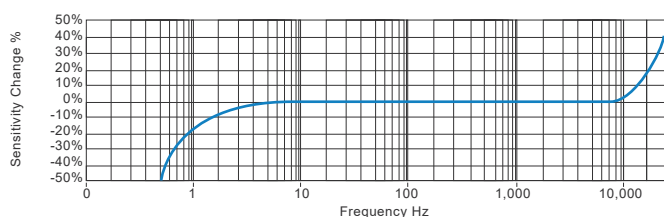
Building services, Pulp and Paper,
Mining, Metals, Utilities, Automotive,
Water, Pharmaceutical



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/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	1.5Hz (90cpm) to 10kHz (600kcpm) $\pm 5\%$	Weight	106gms (nominal) body only
	0.5Hz (30cpm) to 12kHz (720kcpm) $\pm 10\%$	Maximum Cable Length	1000 metres
	0.2Hz (12cpm) to 15kHz (900kcpm) $\pm 3\text{dB}$	Standard Cable Length	5 metres
Isolation	Base isolated	Screened Cable	Flame Retardant - length to be specified with order
Range	see: 'How To Order' table	Mounting Threads	see: 'How To Order' table
Transverse Sensitivity	Less than 5%		

Electrical		Environmental	
Excitation Voltage:	18-30Volts DC	Operating Temperature Range	-40 to 100°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		

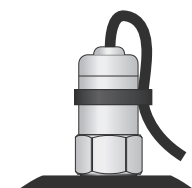
Typical Frequency Response (at 100mV/g)



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 HS - Hansford Sensors		Product Series 150 - Premium Industrial Vibration Sensor							Cable Length (if integral cable) QXX - length specified in metres					
H	S	1	5	0	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		34kHz (2,040kcpm)		01 - PUR		01 - ¼-28" UNF Female				
L - 316L Stainless Steel		030 - 30mV/g		±250g		33kHz (1,980kcpm)		02 - Braided		02 - ¼-28" UNF Male				
RT - Temperature Output PT100		050 - 50mV/g		±160g		32kHz (1,920kcpm)		07 - Silicon		05 - Quick Fit Female				
S - 90° Side Exit		100 - 100mV/g		±80g		30kHz (1,800kcpm)		08 - Flame Retardant		06 - M6 x 1mm Male				
T - Temperature Output		250 - 250mV/g		±32g		28kHz (1,680kcpm)		50 - 2 Pin MS		08 - M8 x 1.25mm Male				
Y - 5% tolerance on sensitivity		500 - 500mV/g		±16g		26kHz (1,560kcpm)		54 - M12		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.

TS400.5

