

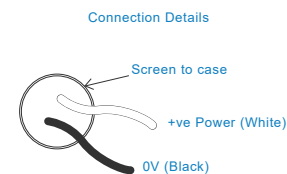
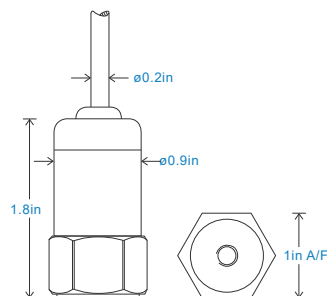
## AC acceleration output via Flame Retardant Cable

## Key Features

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

## Industries

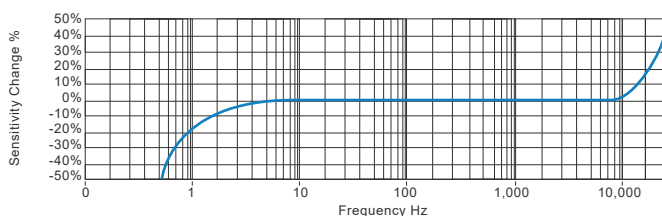
Building services, Pulp and Paper,  
Mining, Metals, Utilities, Automotive,  
Water, Pharmaceutical



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 72°F	Mounting Torque	8Nm
Frequency Response	90cpm (1.5Hz) to 600kcpm (10kHz) $\pm 5\%$	Weight	106gms (nominal) body only
	30cpm (0.5Hz) to 720kcpm (12kHz) $\pm 10\%$	Maximum Cable Length	1000 metres
	12cpm (0.2Hz) to 900kcpm (15kHz) $\pm 3\text{dB}$	Standard Cable Length	5 metres
Isolation	Base isolated	Sheilded 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 212°F
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 <sup>8</sup> Ohms at 500 Volts		

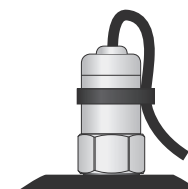
### Typical Frequency Response (at 100mV/g)



## 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) UXX - length specified in feet						
H	S	1	5	0	X	X	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output PT100 S - 90° Side Exit T - Temperature Output 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 1,680kcpm (28kHz) 1,560kcpm (26kHz) 1,440kcpm (24kHz) 1,320kcpm (22kHz) 1,200kcpm (20kHz) 1,080kcpm (18kHz)		Cable/Connector 01 - PUR 02 - Braided 07 - Silicon 08 - Flame Retardant 50 - 2 Pin MS 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

TS400U.5

