

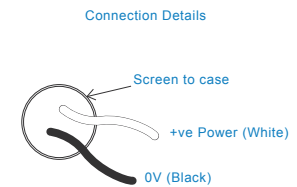
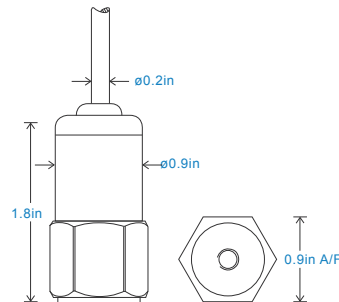
AC acceleration output via Braided Cable

Key Features

- Most common seller
- For use with data collector
- Customizable features

Industries

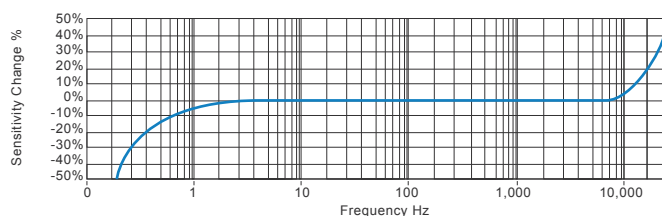
Building services, Pulp and Paper,
Mining, Metals, Utilities, Automotive,
Water, Pharmaceutical



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	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	Shielded Cable	Braided - 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	-67 to 284°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 ⁸ Ohms at 500 Volts		

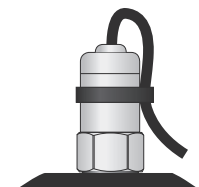
Typical Frequency Response (at 100mV/g)



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
UXX - length specified in feet

Extra Options (if required)

Option	Description
F	Filtered
I	Intrinsically Safe
L	316L Stainless Steel
RT	Temperature Output PT100
T	Temperature Output
Y	5% tolerance on sensitivity

Sensitivity

Code	Range
010	10mV/g
030	30mV/g
050	50mV/g
100	100mV/g
250	250mV/g
500	500mV/g

Range

Code	Range
±800g	
±250g	
±160g	
±80g	
±32g	
±16g	

Resonant Frequency

Code	Frequency
1,680kcpm	(28kHz)
1,560kcpm	(26kHz)
1,440kcpm	(24kHz)
1,320kcpm	(22kHz)
1,200kcpm	(20kHz)
1,080kcpm	(18kHz)

Cable/Connector

Code	Description
01	PUR
02	Braided
07	Silicon
08	Flame Retardant
50	2 Pin MS
54	M12

Mounting Threads

Code	Description
01	1/4-28" UNF Female
02	1/4-28" UNF Male
05	Quick Fit Female
06	M6 x 1mm Male
08	M8 x 1.25mm Male
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

TS125U.6

