

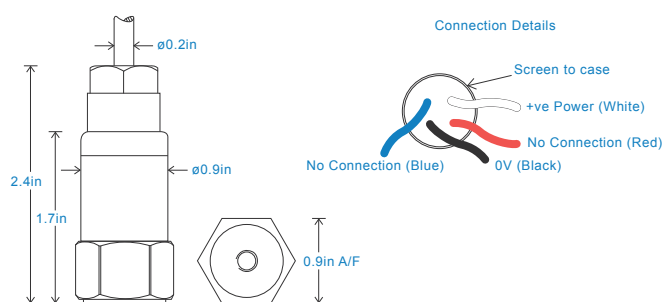
## AC acceleration output via PUR Cable

## Key Features

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

## Industries

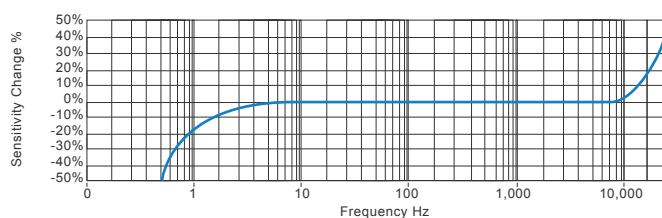
Building services, Pulp and Paper,  
Mining, Metals, Utilities, Automotive,  
Water, Pharmaceutical



Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Compression
	Nominal 80Hz at 72°F	Mounting Torque	5.9ft. lbs
Frequency Response	120cpm (2Hz) to 600kcpm (10kHz) ± 5%	Weight	3.7 oz. (nominal) body only
	90cpm (1.5Hz) to 720kcpm (12kHz) ± 10%	Maximum Cable Length	3,280 ft.
	48cpm (0.8Hz) to 900kcpm (15kHz) ± 3dB	Standard Cable Length	16 ft.
Isolation	Base isolated	Shielded Cable	PUR - length to be specified with order
Range	see: 'How To Order' table	Mounting Threads	see: 'How To Order' table
Transverse Sensitivity	Less than 5%	Submersible Depth	328 ft. max (10 bar)

Electrical		Environmental	
Excitation Voltage	18-30Volts DC	Operating Temperature Range	-22 to 194°F
Electrical Noise	0.1mg max	Sealing	IP68
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		

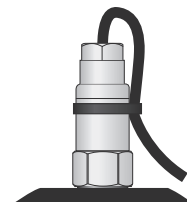
### Typical Frequency Response (at 100mV/g)



## 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**  
100 - Industrial Vibration Sensor

**Cable Length**  
UXX - length specified in feet

**Product Code Structure:**  
H S 1 0 0 X X X X X X X X X X X X X X

**Extra Options (if required)**  
F - Filtered  
I - Intrinsically Safe  
L - 316L Stainless Steel  
RT - Temperature Output PT100  
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**  
2,040kcpm (34kHz)  
1,980kcpm (33kHz)  
1,920kcpm (32kHz)  
1,800kcpm (30kHz)  
1,680kcpm (28kHz)  
1,560kcpm (26kHz)

**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



www.hansfordsensors.com  
sales@hansfordsensors.com

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

TS083U.7

