

# HS-150T Premium Accelerometer

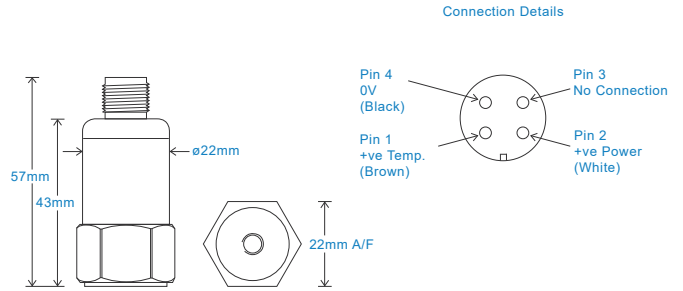
## AC acceleration and temperature output via M12 Connector

### Key Features

- Temperature output
- Premium design
- Customisable features

### Industries

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



### Technical Performance

Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 22°C
Frequency Response	1.5Hz (90cpm) to 10kHz (600kcpm) $\pm 5\%$ 0.5Hz (30cpm) to 12kHz (720kcpm) $\pm 10\%$ 0.2Hz (12cpm) to 15kHz (900kcpm) $\pm 3dB$
Isolation	Base isolated
Range	see: 'How To Order' table
Temperature Output	10 mV/°C standard 100°C - Option 130°C
Transverse Sensitivity	Less than 5%

### Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Shear
Mounting Torque	8 Nm
Weight	140gms (nominal) body only
Screened Cable Assembly	HS-AC010 - straight HS-AC011 - right angle
Mounting Threads	see: 'How To Order' table

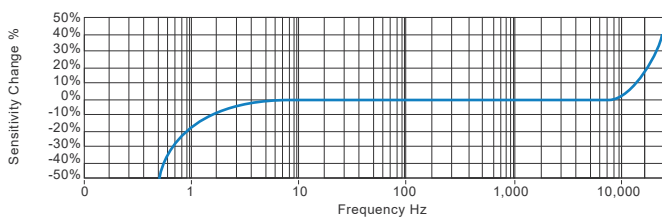
### Electrical

Excitation Voltage:	18-30Volts DC
Electrical Noise	0.1mg max
Current Range	0.5mA to 8mA
Bias Voltage	10 - 12 Volts DC
Settling Time	1 second
Output Impedance	200 Ohms max.
Case Isolation	$>10^8$ Ohms at 500 Volts

### Environmental

Operating Temperature Range	-55 to 150°C
Sealing	IP67
Maximum Shock	5000g
EMC	EN61326-1:2013

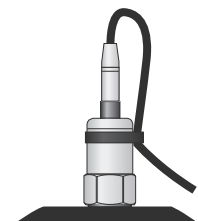
### Typical Frequency Response (at 100mV/g)



### 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										
HS - Hansford Sensors	150 - Premium Industrial Vibration Sensor										
<b>H</b>	<b>S</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>T</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Extra Options (if required)</b>		<b>Sensitivity</b>		<b>Range</b>		<b>Resonant Frequency</b>		<b>Cable/Connector</b>		<b>Mounting Threads</b>	
F - Filtered		010 - 10mV/g		$\pm 800g$		34kHz (2,040kcpm)		01 - PUR		01 - ¼-28" UNF Female	
L - 316L Stainless Steel		030 - 30mV/g		$\pm 250g$		33kHz (1,980kcpm)		03 - Braided		02 - ¼-28" UNF Male	
S - 90° Side Exit		050 - 50mV/g		$\pm 160g$		32kHz (1,920kcpm)		07 - Silicon		05 - Quick Fit Female	
T - Temperature Output		100 - 100mV/g		$\pm 80g$		30kHz (1,800kcpm)		15 - Flame Retardant		06 - M6 x 1mm Male	
Y - 5% tolerance on sensitivity		250 - 250mV/g		$\pm 32g$		28kHz (1,680kcpm)		52 - 3 Pin MS		08 - M8 x 1.25mm Male	
		500 - 500mV/g		$\pm 16g$		26kHz (1,560kcpm)		54 - M12		10 - M10 x 1.5mm Male	



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[www.hansfordsensors.com.cn](http://www.hansfordsensors.com.cn)

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