

# HS-150 Premium Accelerometer

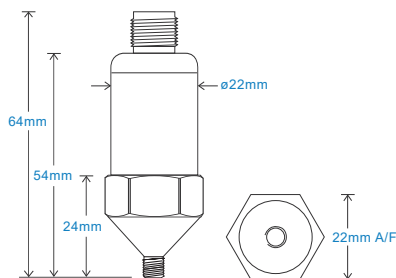
## AC acceleration output via M12 Connector with Conical Mounting

### Key Features

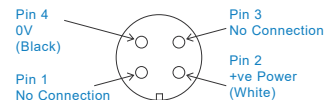
- For use with data collector
- Premium design
- M8 Conical Mounting

### Industries

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



Connection Details



### 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) $\pm 3\text{dB}$
Isolation	Base isolated
Range	see: 'How To Order' table
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	M8 Conical Base

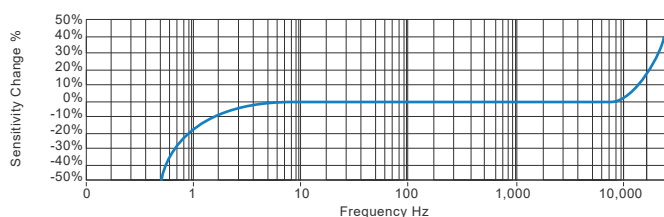
### Electrical

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

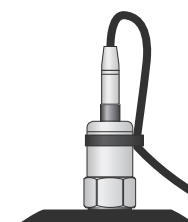
### Typical Frequency Response (at 100mV/g)



### 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 HS - Hansford Sensors		Product Series 150 - Premium Industrial Vibration Sensor									
H	S	1	5	0	X	X	X	X	X	X	X
Extra Options (If required)		Sensitivity		Range		Resonant Frequency		Cable/Connector		Mounting Threads	
F - Filtered		010 - 10mV/g		$\pm 800\text{g}$		34kHz (2,040kcpm)		50 - 2 Pin MS		19 - M8 Conical Base	
L - 316L Stainless Steel		030 - 30mV/g		$\pm 250\text{g}$		33kHz (1,980kcpm)		54 - M12			
RT - Temperature Output PT100		050 - 50mV/g		$\pm 160\text{g}$		32kHz (1,920kcpm)					
S - 90° Side Exit		100 - 100mV/g		$\pm 80\text{g}$		30kHz (1,800kcpm)					
T - Temperature Output		250 - 250mV/g		$\pm 32\text{g}$		28kHz (1,680kcpm)					
Y - 5% tolerance on sensitivity		500 - 500mV/g		$\pm 16\text{g}$		26kHz (1,560kcpm)					



[www.hansfordsensors.com](http://www.hansfordsensors.com)  
[sales@hansfordsensors.com](mailto:sales@hansfordsensors.com)

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

TS1168.2

