

HS-160T Accelerometer

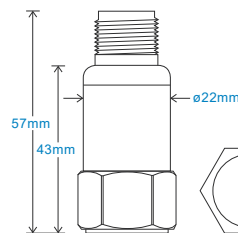
AC velocity and temperature output via 3 Pin MS Connector

Key Features

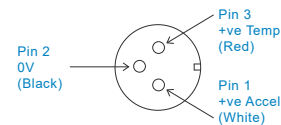
- For use with data collector
- AC velocity output
- Temperature output

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	3Hz (180cpm) to 4.5kHz (270kcpm) $\pm 10\%$ 2Hz (120cpm) to 6kHz (360kcpm) $\pm 3\text{dB}$
Isolation	Base isolated
Range	see: 'How To Order' table
Temperature Output	10 mV/°C standard 100°C - Option 140°C
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	316L Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	8Nm
Weight	106gms (nominal) body only
Screened Cable Assembly	see: www.hansfordsensors.com for options
Connector	HS-AA005 - non-booted HS-AA068 or HS-0069 - booted
Mounting Threads	see: 'How To Order' table

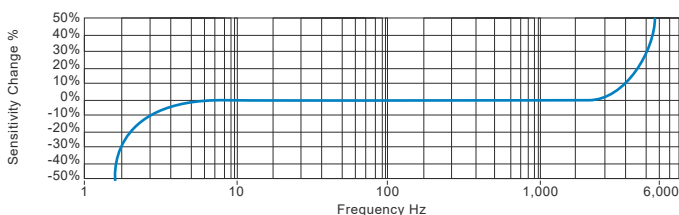
Electrical

Electrical Noise	0.1mg max
Current Range	0.5mA to 8mA
Bias Voltage	10 - 12 Volts DC
Settling Time	2 seconds
Output Impedance	200 Ohms max.
Case Isolation	$>10^8$ Ohms at 500 Volts

Environmental

Operating Temperature Range	-55 to 140°C
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

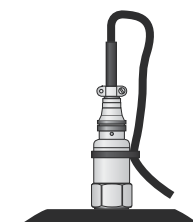
Typical Frequency Response



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		160 - Industrial Vibration Sensor									
H	S	1	6	0	T	X	X	X	X	X	X
Extra Options (if required)		Sensitivity		Range (pk)		Resonant Frequency		Cable/Connector		Mounting Threads	
F - Filtered		004 - 4mV/mm/s		1000mm/s		22kHz (1,320kcpm)		01 - PUR		01 - ¼-28" UNF Female	
S - 90° Side Exit		025 - 25mV/mm/s		250mm/s		22kHz (1,320kcpm)		03 - Braided		02 - ¼-28" UNF Male	
T - Temperature Output		(other sensitivities available on request)									
Y - 5% tolerance on sensitivity											
						52 - 3 Pin MS		05 - Quick Fit Female			
						54 - M12		06 - M6 x 1mm Male			
								08 - M8 x 1.25mm Male			
								10 - M10 x 1.5mm Male			