

HS-107S Accelerometer

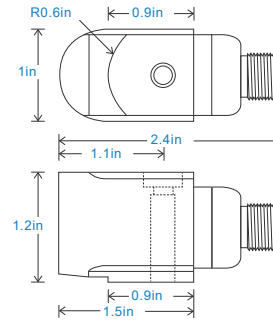
AC acceleration output via M12 Connector

Key Features

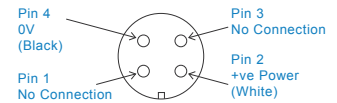
- Line drive
- Customizable features
- For use with data collector
- Side entry for easy access

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 72°F
Frequency Response	120cpm (2Hz) to 600kcpm (10kHz) $\pm 5\%$ 90cpm (1.5Hz) to 720kcpm (12kHz) $\pm 10\%$ 48cpm (0.8Hz) to 900kcpm (15kHz) $\pm 3\text{dB}$
Isolation	Base isolated
Range	see: 'How To Order' table
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	5.9ft. lbs
Mounting Bolt provided	see: 'How To Order' table x 1.2in long
Weight	6.5 oz. (nominal) body only
Screened Cable Assembly	HS-AC010 - straight HS-AC011 - right angle
Mounting Threads	see: 'How To Order' table

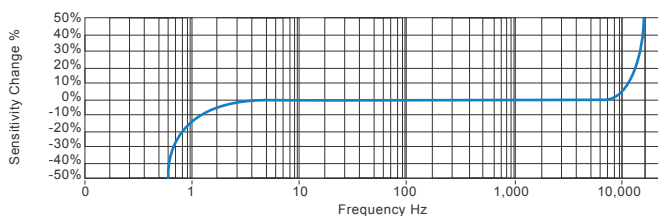
Electrical

Electrical Noise	0.1mg max
Supply Voltage	7.5 - 24Volts DC
Bias Current	3.5mA
Settling Time	2 seconds
Output Impedance	200 Ohms max.
Case Isolation	$>10^8$ Ohms at 500 Volts

Environmental

Operating Temperature Range	-67 to 284°F
Sealing	IP67
Maximum Shock	5000g
EMC	EN61326-1:2013

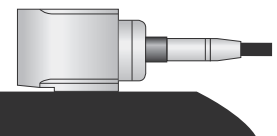
Typical Frequency Response



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					Cable Length							
HS - Hansford Sensors		107 - Industrial Vibration Sensor					UXX - length specified in feet							
H	S	1	0	7	S	X	X	X	X	X	X	X	X	X
Extra Options (if required)			Sensitivity		Range		Resonant Frequency		Cable/Connector			Mounting Threads		
F - Filtered			010 - 10µA/g		±80g		1,680kcpm (28kHz)		01 - PUR			02 - ¼-28" UNF Male		
L - 316L Stainless Steel			050 - 50µA/g		±16g		1,440kcpm (24kHz)		02 - Braided			06 - M6 x 1mm Male		
RT - Temperature Output PT100									07 - Silicon			08 - M8 x 1.25mm Male		
S - 90° Side Exit									08 - Flame Retardant					
T - Temperature Output									50 - 2 Pin MS					
Y - 5% tolerance on sensitivity									54 - M12					



www.hansfordsensors.com
sales@hansfordsensors.com

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

TS1099U.2

