

HS-107S Accelerometer

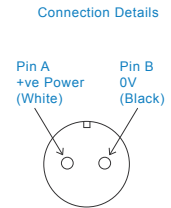
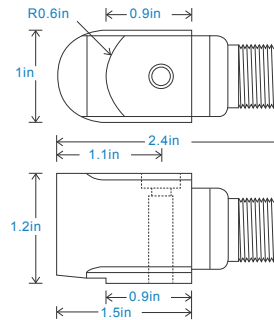
AC acceleration output via 2 Pin MS Connector

Key Features

- Line Drive
- For use with data collector
- Customisable features
- Side entry for easy access

Industries

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



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	316L 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
Shielded Cable Assembly	see: www.hansfordsensors.com for options
Connector	HS-AA004 - non-booted HS-AA053 or HS-AA054 - booted
Mounting Threads	see: 'How To Order' table

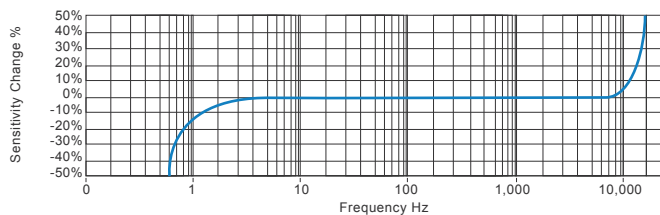
Electrical

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	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

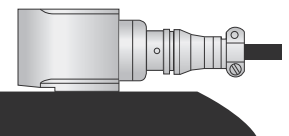
Typical Frequency Response (at 100mV/g)



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	107 - Industrial Vibration Sensor	H	S	1	0	7	S	X	X	X	X
Extra Options (If required)	Sensitivity	Range	Resonant Frequency	Cable/Connector	Mounting Threads						
F - Filtered	010 - 10μA/g	±80g	28kHz (1,680kcpm)	01 - PUR	02 - 1/4-28" UNF Male						
RT - Temperature Output PT100	050 - 50μA/g	±16g	24kHz (1,440kcpm)	02 - Braided	06 - M6 x 1mm Male						
S - 90° Side Exit				07 - Silicon	08 - M8 x 1.25mm Male						
T - Temperature Output				08 - Flame Retardant							
Y - 5% tolerance on sensitivity				50 - 2 Pin MS							
				54 - M12							



www.hansfordsensors.com
sales@hansfordsensors.com

We reserve the right to alter the specification of this product without prior
notice TS1098U.4

