

HS-150T Premium Accelerometer

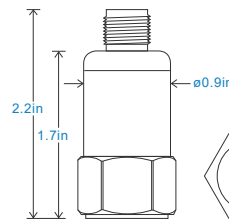
AC acceleration and temperature output via M12 Connector

Key Features

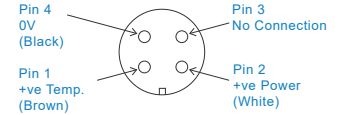
- Temperature output
- Premium design
- Customizable features

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	90cpm (1.5Hz) to 600kcpm (10kHz) $\pm 5\%$ 30cpm (0.5Hz) to 720kcpm (12kHz) $\pm 10\%$ 12cpm (0.2Hz) to 900kcpm (15kHz) $\pm 3\text{dB}$
Isolation	Base isolated
Range	see: 'How To Order' table
Temperature Output	10 mV/°C standard 212°F - Option 300°F
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Shear
Mounting Torque	5.9ft. lbs
Weight	4.9 oz. (nominal) body only
Shielded Cable Assembly	HS-AC010 - straight HS-AC011 - right angle
Mounting Threads	see: 'How To Order' table

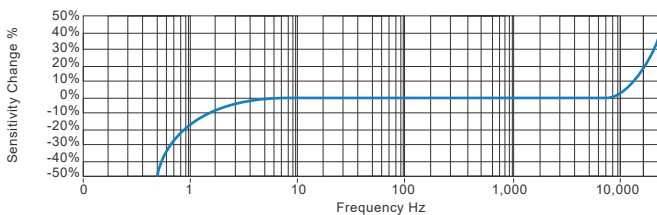
Electrical

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	-67 to 300°F
Sealing	IP67
Maximum Shock	5000g
EMC	EN61326-1:2013

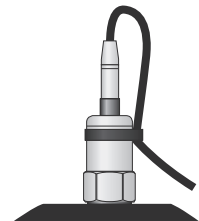
Typical Frequency Response (at 100mV/g)



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	H	S	1	5	0	T	X	X	X	X	X
Extra Options (if required)												
F - Filtered												
HT - High Temperature maximum 300°F												
L - 316L Stainless Steel												
S - 90° Side Exit												
T - Temperature Output												
Y - 5% tolerance on sensitivity												
Sensitivity												
010 - 10mV/g												
030 - 30mV/g												
050 - 50mV/g												
100 - 100mV/g												
250 - 250mV/g												
500 - 500mV/g												
Range												
±800g												
±250g												
±160g												
±80g												
±32g												
±16g												
Resonant Frequency												
2,040kcpm (34kHz)												
1,980kcpm (33kHz)												
1,920kcpm (32kHz)												
1,800kcpm (30kHz)												
1,680kcpm (28kHz)												
1,560kcpm (26kHz)												
Cable/Connector												
01 - PUR												
03 - Braided												
07 - Silicon												
15 - Flame Retardant												
52 - 3 Pin MS												
54 - M12												
Mounting Threads												
01 - ¼-28" UNF Female												
02 - ¼-28" UNF Male												
05 - Quick Fit Female												
06 - M6 x 1mm Male												
08 - M8 x 1.25mm Male												
10 - M10 x 1.5mm Male												



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

TS267U.7

