# **HS-150S Premium Accelerometer**

AC acceleration output via Flame Retardant Cable

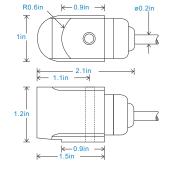
## **Key Features**

- Premium design
- Side entry for easy access
- Customisable features
- Low smoke, halogen free cable

#### Industries

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





Connection Details Screen to case +ve Power (White) 0V (Black)

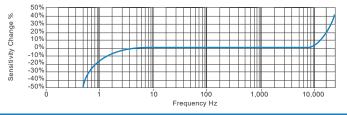
## Technical Performance

Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' table ±10%
	Nominal 80Hz at 72°F
Frequency Response	90cpm (1.5Hz) to 600kcpm (10kHz) ± 5%
	30cpm (0.5Hz) to 720kcpm (12kHz) ± 10%
	12cpm (0.2Hz) to 900kcpm (15kHz) ± 3dB
Isolation	Base isolated
Range	see: 'How To Order' table
Transverse Sensitivity	Less than 5%

Case Material	Stainless Steel
Sensing Element/Construct	ction PZT/Shear
Mounting Torque	5.9ft. lbs
Mounting Bolt provided	see: 'How To Order' table x 1.4in long
Weight	7.2 oz. (nominal) body only
Maximum Cable Length	3,280 ft.
Standard Cable Length	16 ft.
Shielded Cable	Flame Retardant - length to be specified with order
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	2 seconds
Output Impedance	200 Ohms max.
Case Isolation	>10 <sup>8</sup> Ohms at 500 Volts

# Typical Frequency Response (at 100mV/g)



## Environmental

Mechanical

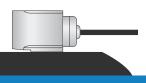
Operating Temperature Range	
Sealing	
Maximum Shock	
EMC	

-67 to 212°F
IP65
5000g
EN61326-1:2013

#### 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.)



CE

## How To Order

<b>Product Prefix</b> HS - Hansford Sensors		roduct Series 50 - Premium Industrial Vibration Sensor									Length (if length spe		
H S 1	5	0	S	X	X	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output PT100 S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensitivity		050 - 3 100 - 250 - 3	-	Range ±800g ±250g ±160g ±80g ±32g ±16g	<b>Resonant</b> 2,040kcpr 1,980kcpr 1,920kcpr 1,800kcpr 1,680kcpr 1,560kcpr	n (34) n (33) n (32) n (30) n (30) n (28)	ncy (Hz) (Hz) (Hz) (Hz) (Hz) (Hz)	Cable/Connector 01 - PUR 02 - Braided 07 - Silicon 08 - Flame Retardant 50 - 2 Pin MS 54 - M12			Mounting Threads 02 - ¼-28" UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male		



www.hansfordsensors.com sales@hansfordsensors.com

We reserve the right to alter the specification of this product without prior notice \$\$T\$809U.3