# HS-150 Premium Accelerometer AC acceleration output via Silicon Cable

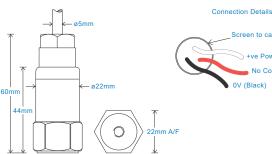
### **Key Features**

 Waterproof Premium design

## Industries

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



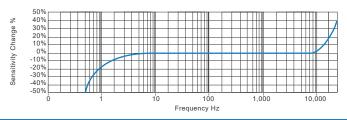


Screen to case +ve Power (White) No Connection (Red) 0V (Black)

Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	1.5Hz (90cpm) to 10kHz (600kcpm) ± 5%	Weight	106gms (nominal) body only
	0.5Hz (30cpm) to 12kHz (720kcpm) ± 10%	Maximum Cable Length	1000 metres
	0.2Hz (12cpm) to 15kHz (900kcpm) ± 3dB	Standard Cable Length	5 metres
Isolation	Base isolated	Screened Cable	Silicon - length to be specified with order
Range	see: 'How To Order' table	Mounting Threads	see: 'How To Order' table
Transverse Sensitivity	Less than 5%	Submersible Depth	100 metres max (10 bar)

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

**Operating Temperature Range** Sealing Maximum Shock EMC

-50 to 150°C IP68 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.)



## How To Order

Product PrefixProduct SeriesHS - Hansford Sensors150 - Premium Industrial Vibration Sensor		nsor							<b>f integral</b> ecified in r		
H S 1	5 0 X	X	X	X	X	X	X	X	X	X	X
Extra Options (if required)   F - Filtered   L - 316L Stainless Steel   RT - Temperature Output PT1 S   S - 90° Side Exit   T - Temperature Output   Y - 5% tolerance on sensitive	100 - 100mV 250 - 250mV	+ ±800g + ±250g + ±160g /g ±80g /g ±32g	34kHz 33kHz 32kHz 30kHz	t Frequenc (2,040kcpm (1,980kcpm (1,920kcpm (1,800kcpm (1,680kcpm (1,560kcpm	n) n) n) n)	01 - PL 02 - Br 07 - Sil	aided icon ame Retar Pin MS	-	01 - 1/4 02 - 1/4 05 - Qu 06 - M 08 - M	<b>ing Threa</b> -28" UNF -28" UNF uick Fit Fe 6 x 1mm M 8 x 1.25m 10 x 1.5m	Female Male emale Male m Male



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We reserve the right to alter the specification of this product without prior notice TS274.7