# **HS-104T Low Power Accelerometer**

AC acceleration and temperature output via M12 Connector

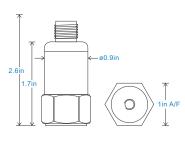
### **Key Features**

- · Low voltage
- · Ultra low power consumption
- Temperature output
- Customisable features

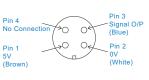
#### Industries

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 ±10%
	Nominal 80Hz at 72°F
Frequency Response	18cpm (0.3Hz) to 600kcpm (10kHz) ± 10%
Isolation	Base isolated
Range	see: 'How To Order' table @ 5V power
Transverse Sensitivity	Less than 5%
Amplitude Linearity	±1%
Temperature Output	10 mV/ºC standard 212°F

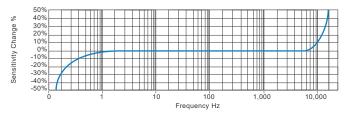
Mechanical
Case Material
Sensing Element/Construction
Mounting Torque
Weight
Sheilded Cable Assembly

Stainless Steel PZT/Shear 5.9ft. lbs 4.4 oz. (nominal) body only HS-AC010 - straight HS-AC011 - right angle see: 'How To Order' table

#### Electrical

Electrical Noise	< 500µg
Power Requirements	5V nominal (other voltages 1.8 to 24V on request)
Current Consumption	100µA nominal at 5V supply (60µA at 1.8V)
Bias Voltage	50% of supply voltage
Settling Time	1 second
Output Impedance	100 Ohms max.
Case Isolation	>10 <sup>8</sup> Ohms at 500 Volts

## Typical Frequency Response (at 100mV/g)



## Environmental

Mounting Threads

**Operating Temperature Range** Sealing Maximum Shock EMC

-58 to 257°F IP67 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.)



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## How To Order

Product Prefix HS - Hansford Sensors	Product S 104 - Low		oration Sensor							
H S 1	0	4	тх	X	X	X	X	X	X	
Extra Options (if required) F - Filtered - 316L Stainless Steel RT - Temperature Output P <sup>-</sup> S - 90° Side Exit T - Temperature Output	-100 0	250 - 250	mV/g ±200g mV/g ±66g	9 1,500kc 9 1,500kc 9 1,500kc 9 1,500kc 9 1,500kc 9 1,500kc	pm (25k pm (25k pm (25k pm (25k	(Hz)	01 - PL 03 - Br 07 - Sil	aided licon ame Retar Pin MS	-	Mounting Threads 01 - ¼-28" UNF Fe 02 - ¼-28" UNF Ma 05 - Quick Fit Fem 06 - M6 x 1mm Ma 08 - M8 x 1.25mm 10 - M10 x 1.5mm



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