HS-107T Accelerometer

AC acceleration and temperature output via M12 Connector

Key Features

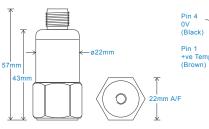
Line drive

- Temperature output
- · For use with data collector

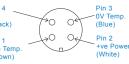
Industries

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 22°C
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 5%
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB
Isolation	Base isolated
Range	see: 'How To Order' table
Temperature Output	10 mV/°C standard 100°C - Option 140°C
Transverse Sensitivity	Less than 5%

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	8Nm
Weight	106gms (nominal) body only
Screened Cable Assembly	HS-AC010 - straight
	HS-AC011 - right angle
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

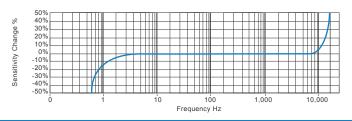
Environmental

Mechanical

Operating Temperature Range Sealing Maximum Shock EMC

-55 to	140°C
	IP67
	5000g
EN61326-	1:2013

Typical Frequency Response



Hansford Sensors

Excellence in Vibration Monitoring

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									Length length spe	ecified in r	netres
H S 1 0	7 T	X	X	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered L - 316L Stainless Steel S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensitivity	Sensitivity 010 - 10μA/g 050 - 50μA/g (other c	Range ±80g ±16g	28kHz 24kHz	nt Freque (1,680kcp (1,440kcp request)	om)	Cable/ 01 - Pt 54 - M		r	01 - 1/4 02 - 1/4 05 - Qu 06 - Mi 08 - Mi	ing Threa -28" UNF -28" UNF uick Fit Fe 6 x 1mm M 8 x 1.25m 10 x 1.5m	Female Male male Male m Male



UK CA

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

TS097.8