# HS-105S High Temp. Accelerometer

### **Key Features**

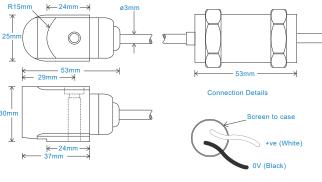
· Includes external charge amplifier • Optional temperature ranges

- · Low noise cable

## Industries

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





# **Technical Performance**

Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Constructi
	Nominal 80Hz at 22°C	Mounting Torque
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt Provided
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%	Weight
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB	Maximum Cable Length Cat
Isolation	Base isolated	
Range	see: 'How To Order' table	
Transverse Sensitivity	Less than 5%	Mounting Threads

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	8Nm
Mounting Bolt Provided	see: 'How To Order' table x 35mm long
Weight	185gms (nominal)
Maximum Cable Length Cable	1000 metres
	see: 'How To Order' table - (20 metres
	max between sensor and charge amplifier)
Mounting Threads	see: 'How To Order' table

Electrical	
Electrical Noise	
Current Range	
Bias Voltage	
Settling Time	
Output Impedance	

## Environmental

0.1mg max

2 seconds

0.5mA to 8mA

10 - 12 Volts DC

200 Ohms max.

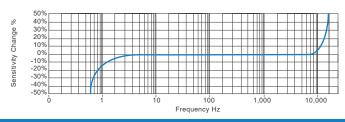
>108 Ohms at 500 Volts

Mechanical

**Operating Temperature Range** Sealing Maximum Shock EMC

-55°C to 150°C or 250°C IP65 5000g EN61326-1:2013

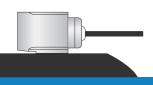
# Typical Frequency Response (at 100mV/g)



## 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

Case Isolation

	<b>ict Series</b> Industrial Vibration	Sensor								e Length ( 'XX - length			e amp, spe	cified in m	netres
H S 1 0	5 X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Extra Options (if required) I - Intrinsically Safe S - 90° Side Exit 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	<b>Resona</b> 28kHz 26kHz 24kHz 22kHz 20kHz 18kHz	nt Frequency (1,680kcpm) (1,560kcpm) (1,440kcpm) (1,320kcpm) (1,200kcpm) (1,080kcpm)	l	Cable 04 - Low No 05 - Low No		C) (C) 5 C) 5 *	Connector 02 - Braided 50 - 2 Pin M The above can't be use ntrinsically S	S connectors d with	02 · 06 · 08 ·	unting Th - ¼-28" UI - M6 x 1m - M8 x 1.2	NF Male		
	rd Sanaa									w.hansfor					



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We reserve the right to alter the specification of this product without prior notice TS123.10