

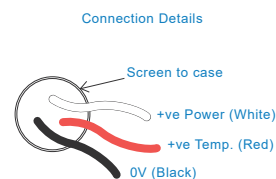
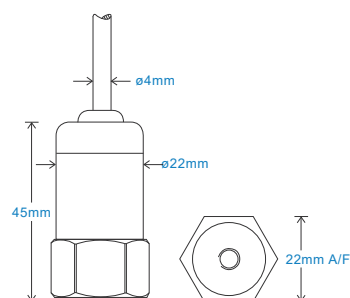
AC acceleration and temperature output via Braided Cable

Key Features

- Temperature output
- Customisable features
- Premium design

Industries

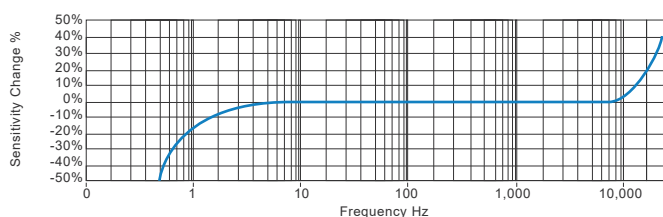
Building services, Pulp and Paper,
Mining, Metals, Utilities, Automotive,
Water, Pharmaceutical



Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table $\pm 10\%$	Sensing Element/Construction	PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	1.5Hz (90cpm) to 10kHz (600kcpm) $\pm 5\%$	Weight	106gms (nominal) body only
	0.5Hz (30cpm) to 12kHz (720kcpm) $\pm 10\%$	Maximum Cable Length	1000 metres
	0.2Hz (12cpm) to 15kHz (900kcpm) $\pm 3\text{dB}$	Standard Cable Length	5 metres
Isolation	Base isolated	Screened Cable	Braided - length to be specified with order
Range	see: 'How To Order' table	Mounting Threads	see: 'How To Order' table
Temperature	10 mV/°C standard 100°C - Option 150°C		
Transverse Sensitivity	Less than 5%		

Electrical		Environmental	
Excitation Voltage:	18-30Volts DC	Operating Temperature Range	-55 to 150°C
Electrical Noise	0.1mg max	Sealing	IP65
Current Range	0.5mA to 8mA	Maximum Shock	5000g
Bias Voltage	10 - 12 Volts DC	EMC	EN61326-1:2013
Settling Time	1 second		
Output Impedance	200 Ohms max.		
Case Isolation	>10 ⁸ Ohms at 500 Volts		

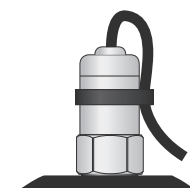
Typical Frequency Response (at 100mV/g)



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

Product Prefix
HS - Hansford Sensors

Product Series
150 - Premium Industrial Vibration Sensor

Cable Length (if integral cable)
QXX - length specified in metres

Extra Options (if required)
F - Filtered
HT - High Temperature maximum 150°C
L - 316L Stainless Steel
S - 90° Side Exit
T - Temperature Output
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

Resonant Frequency
34kHz (2,040kcpm)
33kHz (1,980kcpm)
32kHz (1,920kcpm)
30kHz (1,800kcpm)
28kHz (1,680kcpm)
26kHz (1,560kcpm)

Cable/Connector
01 - PUR
03 - Braided
07 - Silicon
15 - Flame Retardant
52 - 3 Pin MS
54 - M12

Mounting Threads
01 - 1/4-28 UNF Female
02 - 1/4-28 UNF Male
05 - Quick Fit Female
06 - M6 x 1mm Male
08 - M8 x 1.25mm Male
10 - M10 x 1.5mm Male



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

TS272.8

