

## AC acceleration output via Flame Retardant Cable

## Key Features

- Low smoke, halogen free cable
- For use with data collector
- Customisable features

## Industries

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



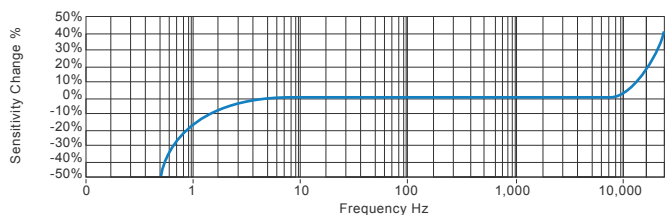
Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' table $\pm 10\%$
	Nominal 80Hz at 22°C
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) $\pm 5\%$
	1.5Hz (90cpm) to 12kHz (720kcpm) $\pm 10\%$
	0.8Hz (48cpm) to 15kHz (900kcpm) $\pm 3\text{dB}$
Isolation	Base isolated
Range	see: 'How To Order' table
Transverse Sensitivity	Less than 5%

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	8Nm
Weight	106gms (nominal) body only
Maximum Cable Length	1000 metres
Standard Cable Length	5 metres
Screened Cable	Flame Retardant - length to be specified with order
Mounting Threads	see: 'How To Order' table

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

Operating Temperature Range	-40 to 100°C
Sealing	IP65
Maximum Shock	5000g
EMC	EN61326-1:2013

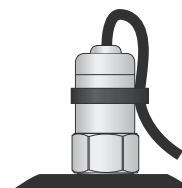
### Typical Frequency Response (at 100mV/g)



## 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

**Product Prefix**  
HS - Hansford Sensors

**Product Series**  
100 - Industrial Vibration Sensor

**Cable Length**  
QXX - length specified in metres

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Extra Options (if required)	Sensitivity	Range	Resonant Frequency	Cable/Connector	Mounting Threads
F - Filtered	010 - 10mV/g	±800g	34kHz (2,040kcpm)	01 - PUR	01 - ¼-28" UNF Female
L - Intrinsically Safe	030 - 30mV/g	±250g	33kHz (1,980kcpm)	02 - Braided	02 - ½-28" UNF Male
I - 316L Stainless Steel	050 - 50mV/g	±160g	32kHz (1,920kcpm)	07 - Silicon	05 - Quick Fit Female
RT - Temperature Output PT100	100 - 100mV/g	±80g	30kHz (1,800kcpm)	08 - Flame Retardant	06 - M6 x 1mm Male
T - Temperature Output	250 - 250mV/g	±32g	28kHz (1,680kcpm)	50 - 2 Pin MS	08 - M8 x 1.25mm Male
Y - 5% tolerance on sensitivity	500 - 500mV/g	±16g	26kHz (1,560kcpm)	54 - M12	10 - M10 x 1.5mm Male



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

TS060.7

