

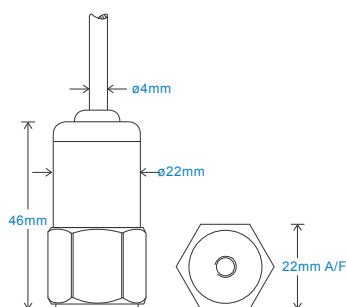
## AC acceleration output via Braided Cable

## Key Features

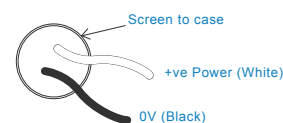
- Most common seller
- For use with data collector
- Customisable features

## Industries

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



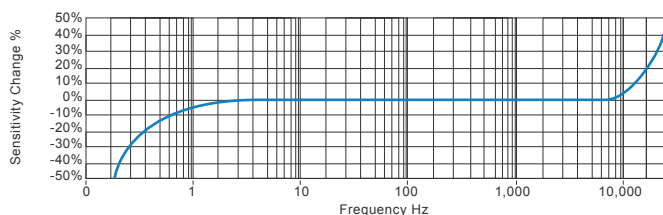
### Connection Details



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/Compression
	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
Transverse Sensitivity	Less than 5%		

Electrical		Environmental	
Excitation Voltage:	18-30Volts DC	Operating Temperature Range	-55 to 140°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	2 seconds		
Output Impedance	200 Ohms max.		
Case Isolation	>10 <sup>8</sup> Ohms at 500 Volts		

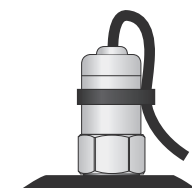
### Typical Frequency Response (at 100mV/g)



## 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**  
100 - Industrial Vibration Sensor

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

**Extra Options (if required)**  
 F - Filtered  
 I - Intrinsic Safe  
 L - 316L Stainless Steel  
 RT - Temperature Output PT100  
 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**  
 28kHz (1,680kcpm)  
 26kHz (1,560kcpm)  
 24kHz (1,440kcpm)  
 22kHz (1,320kcpm)  
 20kHz (1,200kcpm)  
 18kHz (1,080kcpm)

**Cable/Connector**  
 01 - PUR  
 02 - Braided  
 07 - Silicon  
 08 - Flame Retardant  
 50 - 2 Pin MS  
 54 - M12

**Mounting Threads**  
 01 - ¼-28" UNF Female  
 02 - ¼-28" 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

TS125.7

