

# HS-150 Premium Accelerometer

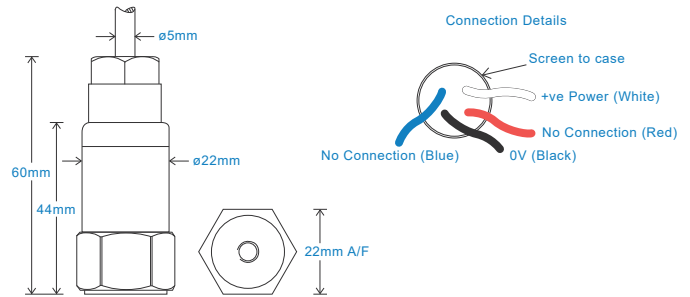
AC acceleration output via 4 Core Polyolefin HFFR

## Key Features

- Halogen free cable
- Resistant to oil
- Premium design

## Industries

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



## Technical Performance

Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 22°C
Frequency Response	1.5Hz (90cpm) to 10kHz (600kcpm) $\pm 5\%$ 0.5Hz (30cpm) to 12kHz (720kcpm) $\pm 10\%$ 0.2Hz (12cpm) to 15kHz (900kcpm) $\pm 3\text{dB}$
Isolation	Base isolated
Range	see: 'How To Order' table
Transverse Sensitivity	Less than 5%

## Mechanical

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

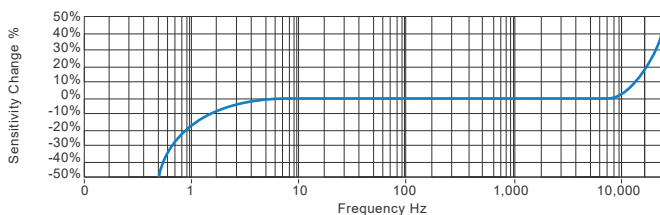
## Electrical

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	$>10^8$ Ohms at 500 Volts

## Environmental

Operating Temperature Range	-55 to 130°C
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

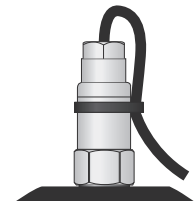
## Typical Frequency Response (at 100mV/g)



## 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 150 - Premium Industrial Vibration Sensor	Cable Length (if integral cable) QXX - length specified in metres
H	S	1
5	0	X
X	X	X
X	X	X
X	X	X
X	X	X
X	X	X
X	X	X
X	X	X
X	X	X
X	X	X
X	X	X
X	X	X
X	X	X
X	X	X

Extra Options (if required)	Sensitivity	Range	Resonant Frequency	Cable/Connector	Mounting Threads
F - Filtered	010 - 10mV/g	$\pm 800\text{g}$	34kHz (2,040kcpm)	37 - 4 Core Polyolefin	01 - 1/4-28" UNF Female
L - 316L Stainless Steel	030 - 30mV/g	$\pm 250\text{g}$	33kHz (1,980kcpm)	HFFR	02 - 1/4-28" UNF Male
RT - Temperature Output PT100	050 - 50mV/g	$\pm 160\text{g}$	32kHz (1,920kcpm)		05 - Quick Fit Female
S - 90° Side Exit	100 - 100mV/g	$\pm 80\text{g}$	30kHz (1,800kcpm)		06 - M6 x 1mm Male
T - Temperature Output	250 - 250mV/g	$\pm 32\text{g}$	28kHz (1,680kcpm)		08 - M8 x 1.25mm Male
Y - 5% tolerance on sensitivity	500 - 500mV/g	$\pm 16\text{g}$	26kHz (1,560kcpm)		10 - M10 x 1.5mm Male



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

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