

# IE-150 Premium Accelerometer

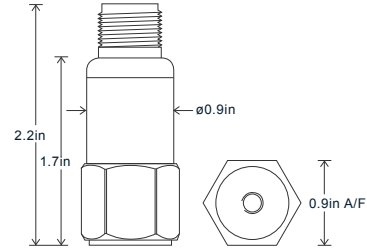
AC acceleration output via 2 Pin MS Connector

## Key Features

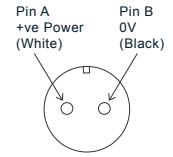
- For use with data collector
- Premium design
- Customizable features

## Industries

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



Connection Details



## Technical Performance

Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 72°F
Frequency Response	90cpm (1.5Hz) to 600kcpm (10kHz) $\pm 5\%$ 30cpm (0.5Hz) to 720kcpm (12kHz) $\pm 10\%$ 12cpm (0.2Hz) to 900kcpm (15kHz) $\pm 3dB$
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	5.9ft. lbs
Weight	3.7 oz. (nominal) body only
Shielded Cable Assembly Connector	see: <a href="http://www.hansfordsensors.com">www.hansfordsensors.com</a> for options IE-AA004 - non-booted IE-AA053 or IE-AA054 - booted
Mounting Threads	see: 'How To Order' table

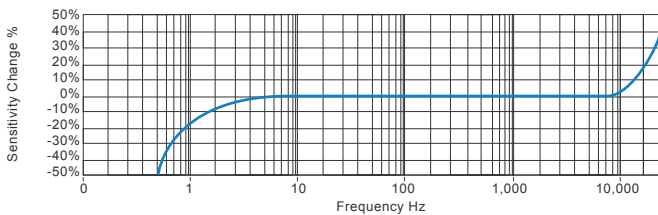
## Electrical

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	-67 to 300°F
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

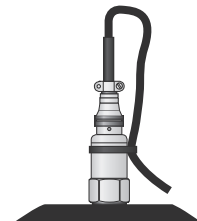
## Typical Frequency Response (at 100mV/g)



## 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

<b>Product Prefix</b> IE - I&E Technologies	<b>Product Series</b> 150 - Premium Industrial Vibration Sensor										
I	E	1	5	0	X	X	X	X	X	X	X
<b>Extra Options (if required)</b>		<b>Sensitivity</b>	<b>Range</b>	<b>Resonant Frequency</b>		<b>Cable/Connector</b>			<b>Mounting Threads</b>		
F - Filtered		010 - 10mV/g	$\pm 800g$	2,040kcpm (34kHz)		01 - PUR			01 - 1/4"-28" UNF Female		
L - 316L Stainless Steel		030 - 30mV/g	$\pm 250g$	1,980kcpm (33kHz)		02 - Braided			02 - 1/4"-28" UNF Male		
RT - Temperature Output PT100		050 - 50mV/g	$\pm 160g$	1,920kcpm (32kHz)		07 - Silicon			05 - Quick Fit Female		
S - 90° Side Exit		100 - 100mV/g	$\pm 80g$	1,800kcpm (30kHz)		08 - Flame Retardant			06 - M6 x 1mm Male		
T - Temperature Output		250 - 250mV/g	$\pm 32g$	1,680kcpm (28kHz)		50 - 2 Pin MS			08 - M8 x 1.25mm Male		
Y - 5% tolerance on sensitivity		500 - 500mV/g	$\pm 16g$	1,560kcpm (26kHz)		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

TS1370U

