

# MS-130 Accelerometer

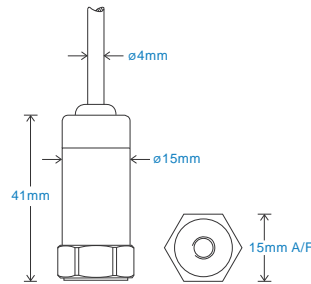
## AC acceleration output via Flame Retardant Cable

### Key Features

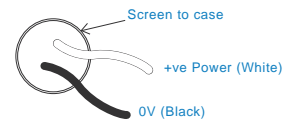
- For use with data collector
- Compact design
- Customisable features

### 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 22°C
Frequency Response	2Hz (120cpm) to 14kHz (840kcpm) $\pm 5\%$ 1.5Hz (90cpm) to 16kHz (960kcpm) $\pm 10\%$ 0.8Hz (48cpm) to 19kHz (1,140kcpm) $\pm 3dB$
Isolation	Base isolated
Range	see: 'How To Order' table
Transverse Sensitivity	Less than 5%

### Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	8Nm
Weight	30gms (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

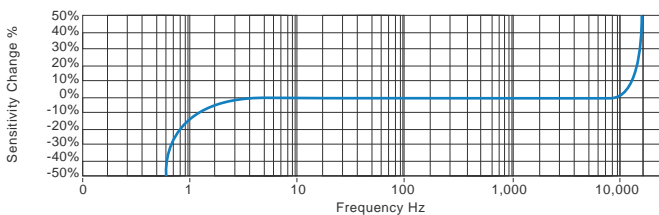
### Electrical

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

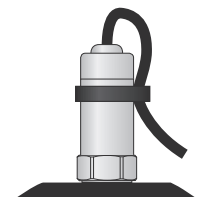
### Typical Frequency Response (at 100mV/g)



### 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	Product Series	Cable Length (if integral cable)												
MS - Monition Sensors	130 - Industrial Vibration Sensor	QXX - length specified in metres												
M	S	1	3	0	X	X	X	X	X	X	X	X	X	X
Extra Options (if required)		Sensitivity			Range			Resonant Frequency			Cable/Connector		Mounting Threads	
Y - 5% tolerance on sensitivity		010 - 10mV/g			$\pm 800g$			28kHz (1,680kcpm)			08 - Flame Retardant		06 - M6 x 1mm Male	
		030 - 30mV/g			$\pm 250g$			26kHz (1,560kcpm)			58 - M8		08 - M8 x 1.25mm Male	
		050 - 50mV/g			$\pm 160g$			24kHz (1,440kcpm)						
		100 - 100mV/g			$\pm 80g$			22kHz (1,320kcpm)						
		250 - 250mV/g			$\pm 32g$			20kHz (1,200kcpm)						
		500 - 500mV/g			$\pm 16g$			18kHz (1,080kcpm)						

