

# HS-140 Charge Output Accelerometer

## AC acceleration output via Microdot Connector

### Key Features

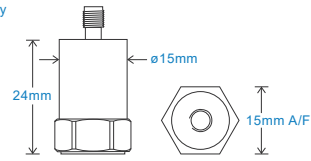
- OEM
- High Temperature

### Industries

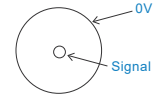
Test and Measurement



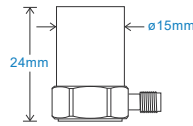
Top Entry



Connection Details



Side Entry



### Technical Performance

Mounted Base Resonance	32kHz (nominal)
Sensitivity	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 22°C
Frequency Response	2Hz (120cpm) to 12kHz (720kcpm) $\pm 5\%$ - dependant on charge amplifier
Isolation	Base non-isolated
Range	$\pm 800g$
Transverse Sensitivity	Less than 5%
Amplitude Linearity	$\pm 1\%$

### Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	3Nm
Weight	24gms (nominal) body only
Screened Cable Assembly	AC015
Maximum Cable Length	10 metres
Mating Connector	Microdot
Mounting Threads	see: 'How To Order' table
Radiation Resistant	Select as an option if required

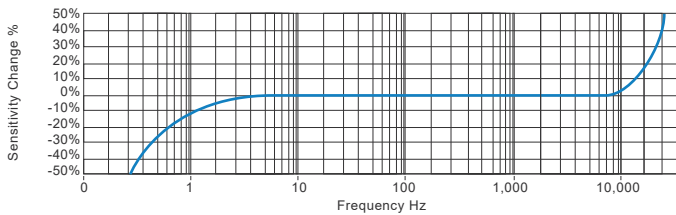
### Electrical

Capacitance	450 pF nom.
Charge Amplifier	External unit required: HS-CA002 - standard HS-CA001 - velocity

### Environmental

Operating Temperature Range	-55 to 250°C
Sealing	IP55
Maximum Shock	5000g
EMC	EN61326-1:2013

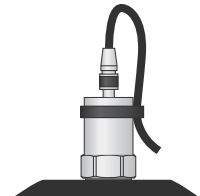
### Typical Frequency Response (at 100mV/g)



### Applications

Feed Pumps, Boilers, Turbines and Compressors

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> HS - Hansford Sensors	<b>Product Series</b> 140 - Industrial Vibration Sensor										
<b>H</b>	<b>S</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
					<b>Extra Options (if required)</b> Y - 5% tolerance on sensitivity	<b>Sensitivity</b> 010 - 10pC/g 020 - 30pC/g 030 - 50pC/g			<b>Connector</b> 57 - Microdot		<b>Mounting Threads</b> 03 - 10-32 UNF Female 04 - 10-32 UNF Male 06 - M6 x 1mm Male 14 - M5 x 0.8mm Female 24 - M5 x 0.8mm Male



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