HS-140 Charge Output Accelerometer

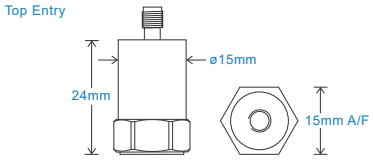
AC acceleration output via Microdot Connector

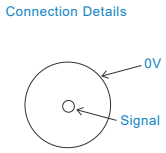
Key Features

- OEM
- High Temperature

Industries

Test and Measurement





Technical Performance

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

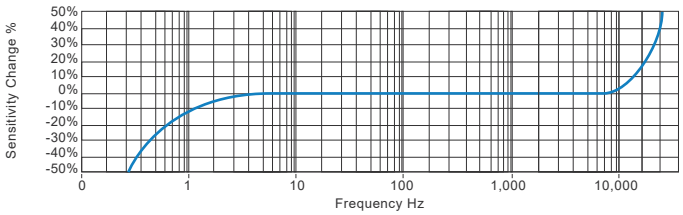
Electrical

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

Environmental

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

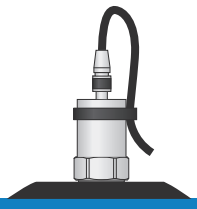
Typical Frequency Response (at 100mV/g)



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

Product Prefix
HS - Hansford Sensors

Product Series
140 - Industrial Vibration Sensor

H	S	1	4	0	X	X	X	X	X	X	X	X

Extra Options (if required)
Y - 5% tolerance on sensitivity

Sensitivity
010 - 10pC/g
020 - 30pC/g
030 - 50pC/g

Connector
57 - Microdot

Mounting Threads
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

Hansford Sensors
Excellence in Vibration Monitoring

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