

A/140, A/140/S, A/140/C Industrial Accelerometer



100mV/g Output 76-81gm 120°C Max Temp (140°C A/140/C)

General purpose side-entry constant current accelerometer with isolated AC output. Made from robust Stainless steel throughout for long term vibration analysis in harsh environments. Sealed to IP67 and includes 2-pin C5015 military style connector. PZT, Annular shear sensing element

Applications

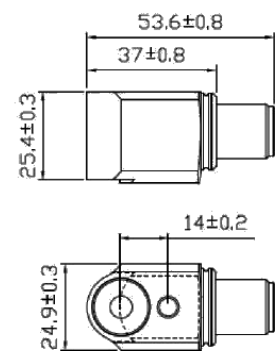
- Wind turbines
- Steel mills
- Oil pipelines
- High speed trains
- Machine monitoring
- Safety monitoring
- Bearing analysis

Features

- Voltage Output
- High reliability
- Maintenance free
- Corrosion resistant
- High S/N ratio
- Integral Sealing

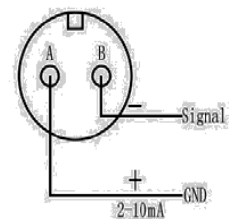
	Metric	Imperial
Standard Sensitivity ±10%	10.2mV/(m/s ²)	100mV/g
Power supply	8-30V DC, 2-10mA Constant current 33 kHz h 20 kHz	8-30V DC, 2-10mA Constant current 33 kHz h 20 kHz
Frequency Response	1Hz to 3kHz ±5% 1Hz to 5kHz ±10%	1Hz to 3kHz ±5% 1Hz to 5kHz ±10%
Mounted Base Resonance	20kHz (nominal)	20kHz (nominal)
Dynamic Range	±80g	±80g
Transverse sensitivity	<5%	<5%
Operating Temperature	-50 to +120°C -50 to +140°C (/C)	-58°F to +248°F -58°F to +284°F (/C)
Temperature Sensitivity	0.08%/°C	32.14%/°F
Base strain sensitivity	0.0002g/μstrain	0.0002g/μstrain
Isolation	Case isolated	Case isolated
Case Material	Stainless Steel	Stainless Steel
Sealing	IP67	IP67
Weight	76gm 81gm A/140/S	2.68oz 2.86oz A/140/S
Electromagnetic Sensitivity (equivalent g)	70μg/gauss	70μg/gauss
Sine vibration limit	500g Pk	500g Pk
Shock limit	5000g Pk	5000g Pk
Size	Ø22 x 58mm 37 x 24.9 x 25.4mm Ø22 x 44mm	Ø0.87 x 2.28in 1.46 x 0.98in Ø0.87 x 1.73in

A/140/S



Unit: mm

System Connection



Spectral Noise:

Bandwidth 2.5Hz – 25kHz	700μg
Spectrum:	
10Hz	10μg/√Hz
100Hz	5 μg/√Hz
1000Hz	5 μg/√Hz

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