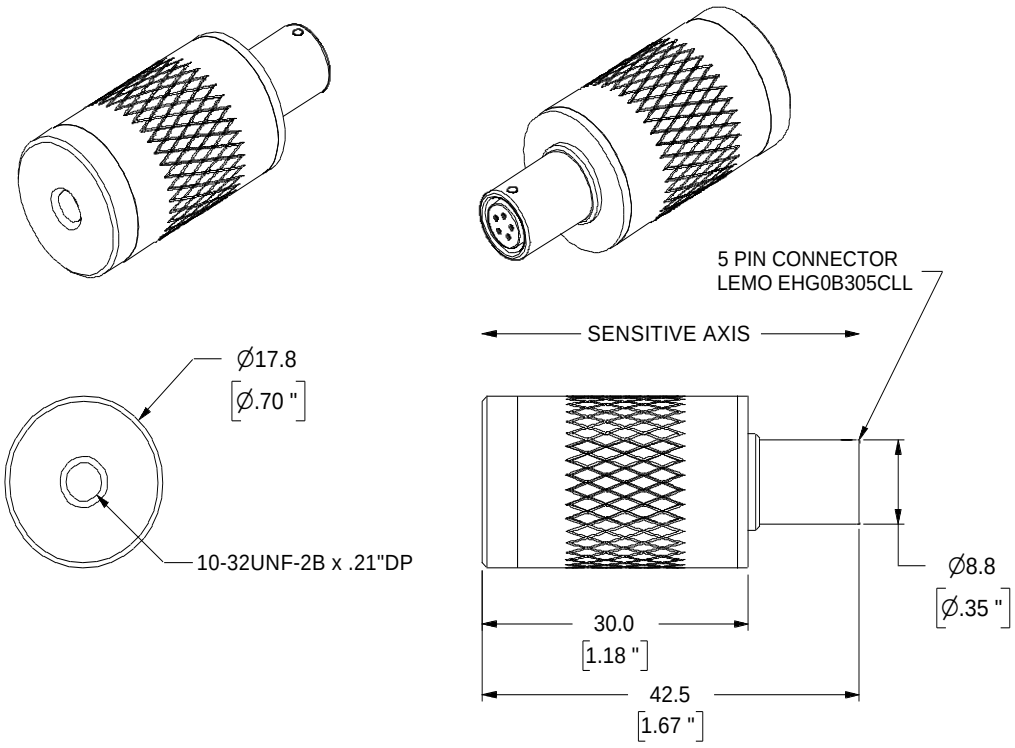
Model **943** ACCELEROMETER

The IRD Model 943 is a 100 mV/g seismic accelerometer designed for use with portable analyzers and data collectors. The Model 943 design is based on the proven performance of the 942 accelerometer used in permanent vibration monitoring applications. The Model 943 can be stud-mounted, used with a magnet holder or used with extension probes to measure vibration.

For walk-around data collection that combines permanently installed 942 accelerometers and hand-held measurements, the Model 943 has the advantage of not needing to switch cables, input ports or transducer sensitivities.

The Model 943 incorporates the industry standard IEPE constant current interface. This is a low-output impedance, constant-current driven amplifier with a low-noise floor. The wide frequency and amplitude range of the Model 943 accommodate most vibration measurement applications for predictive maintenance. The small size of the Model 943 permits its use in remote and tight spaces. All Model 943 components are designed for use in harsh industrial environments.

Line Drawing:



943

Model **943** ACCELEROMETER

GENERAL SPECIFICATIONS	
Frequency Response	5 - 3000Hz ± 10% @ 70°F (21°C)
Sensitivity	100 mV/g ± 10% @ 100Hz
Magnetic Field Sensitivity	100 µg/Gauss @ 60Hz
Dynamic Range	.001-50 g peak
Resonance	25K Hz mounted, nominal
Grounding	Case connected to circuit common
Power Requirement	+16 to +24 VDC 1 - 4 mA constant current
Housing	304 series stainless steel case with epoxy seal
Transverse Response	5%, average
Temperature Range	-60 to 250°F (-52 to 121°C)
Connector	5-pin Lemo
Shock	1000g peak
Mounting	#10 - 32 UNF hole, .21” deep
Weight	1.55 oz (44 grams)
Environmental Protection	Waterproof, dustproof, corrosion-resistant per NEMA 4

Ordering Information for Model 943	
Part Number	Description
E35530	Model 943 Accelerometer
E35973	943 Probe, ½ inch (12.5mm)
E35540	943 Probe, 5 inch (125mm)
E35536	943 Magnetic Holder

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