



PRODUCT SPECIFICATION

Inductive Velocity Sensor: On-Line, Square Base, Top Connector

Model No:
MIL544M

Part Number:
M97120

The Mechanalysis model MIL544M inductive vibration sensor is an industrial vibration measuring sensor for continuous on-line machinery protection, especially at the steam end of turbines (up to 260°C) and generator bearings. In production for over 40 years it continues to be the World's most widely used velocity sensor. The sensor can be mounted horizontal or vertical on a flat surface at the bearing housing or other critical points on a machine. It provides reliable continuous performance under a variety of adverse environmental conditions. India alone has more than 8000 in daily use.

The MIL544M inductive velocity sensor has a high output and low impedance, good frequency response makes the suitable for all types of machinery protection. The sensor's case insulates the signal from the housing to eliminate false alarms often encountered from ground loops and power surges. The sensor's hard anodized aluminium housing is IP65, waterproof, dustproof and approved for use in Class1 Division 2 hazardous areas. Calibrated to traceable National Standards, the sensor is supplied with a full frequency calibration test certificate. It can be serviced at MIL's Service Centre in Mumbai India.

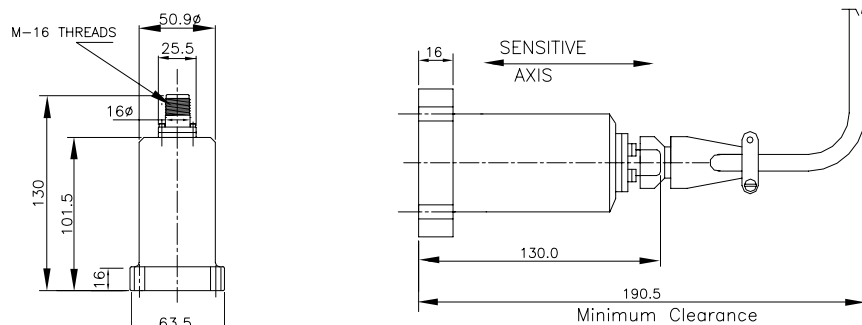


Optional accessories:

- Magnetic shield (reduce sensitivity to AC magnetic field by 100:1)
- Straight cable connector rated for continuous operation at 121°C
- Right-angle connector rated for continuous operation at 121°C
- Mounting Pad MS 60x60x16mm with M6 thread tapped Blackodised
- Mounting Block MS (XY) 60x60x60mm with M6 thread tapped Blackodised
- Mounting Bracket MS (XY) for Sensor
- Mounting Bracket AL (XY) for Sensor

Qty	Part Number
1	M10449
1	M43660
1	M14797
1	M60015
1	M60014
1	M60019
1	M60020

Dimensions & Connections



Technical Performance

Frequency Response:	14 to 1,000 Hz within $\pm 8\%$ 10Hz - 20% (average) at 21°C
Sensitivity:	42.52 mV/mm/sec $\pm 10\%$
Impedance:	R=2k ohms, L = 0.7 H at 21°C
Maximum Amplitude:	3175 microns Pk - Pk to 70 Hz; 30 g above 70 Hz
Transverse Response:	Less than 5% (average) 10 to 1,000 Hz
Isolation:	Signal insulated from case

Mounting

Orientation:	Any (horizontal & vertical best)
Mounting:	(4) holes 7.15mm Dia. on 2 x 2 centres
Grounding:	Case and signal ground isolated
Connector:	2-pin Mil Spec

Environmental

Operating range:	-40°C to 260°C
Housing:	IP65
Classification:	Class1, Div2

Weight & Dimensions

Weight:	700 grams
Dimensions:	63.5mm (W) x 63.5mm (L) x 130.0 (H) overall
Construction:	Aluminium, Hard Anodised

The Vibration People of Mechanalysis (India) Ltd can be contacted at any one of the following Branches

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condition management solutions

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