



SA6250 IPT™ SEISMIC HIGH-FREQUENCY ACCELEROMETER SENSOR

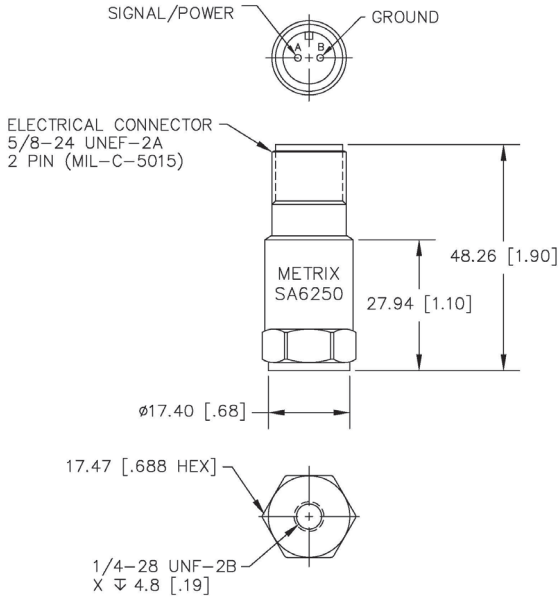
Installation Manual



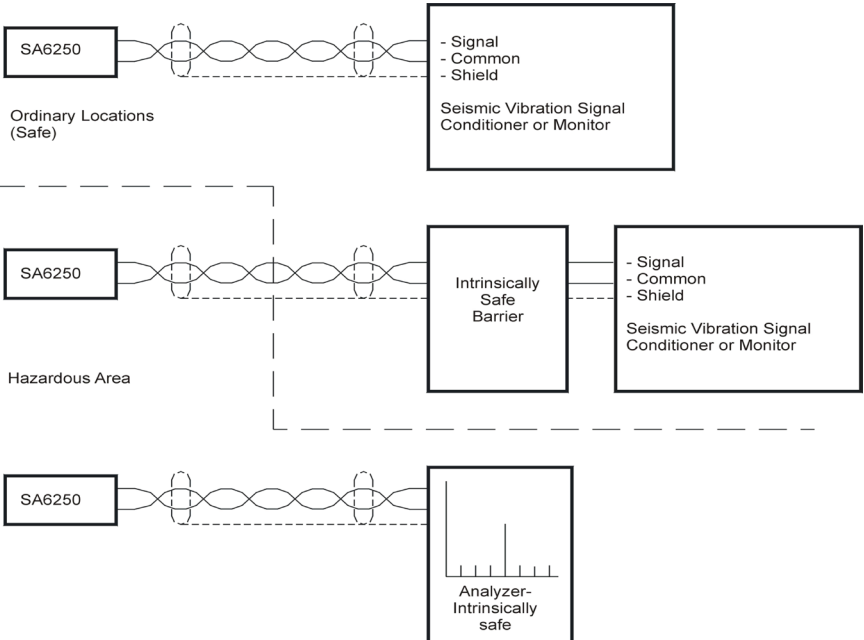
OVERVIEW

With the ability to sense a wide range of vibration frequencies, the SA6250 accelerometer is ideal for use on a variety of machines. A built-in amplifier provides a high-level, low-impedance output for connection to a signal conditioner for a 4-20 mA output or to a vibration output monitor. The SA6250 consists of a temperature stabilized piezo-electric sensor and amplifier, packaged in a stainless steel case designed to operate continually in a wet, corrosive environment of up to 121°C (250°F). The sensing circuit is electrically isolated to 500Vrms. Although shipped standard with a 1/4-28 to 1/4-28 mounting stud, other mounting configurations are available. Refer to the accessories table of this manual for alternative mounting adaptors.

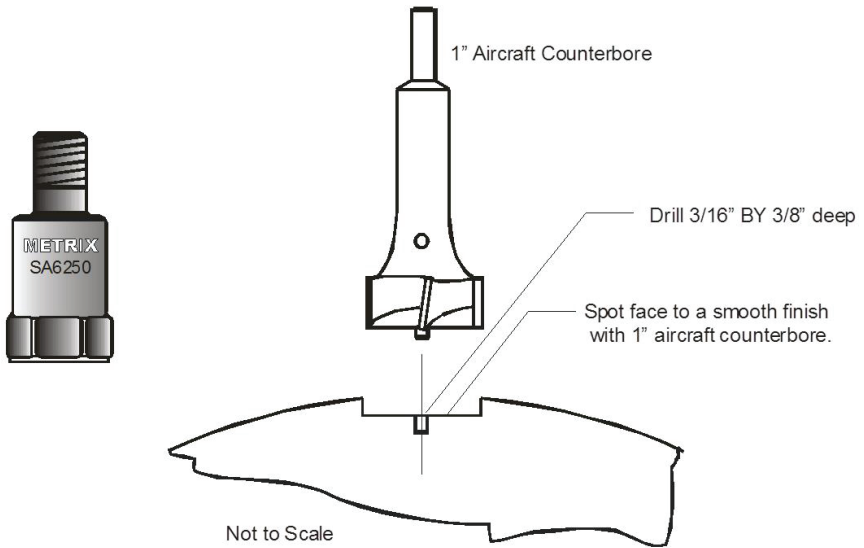
OUTLINE & DIMENSIONS



TYPICAL MOUNTING



STUD MOUNTING THE SA6250 ACCELEROMETER



Installation Procedure

1. Center punch hole location.
2. Drill 3/16" diameter by 1/2" deep hole on punch mark.
3. Remove metal shavings.
4. Using the 3/16" hole as a guide, spot face to the depth required for a flat mounting surface.
5. Drill out the center hole using the 7/32" (#3) drill bit.
6. Tap hole with 1/4-28 UNF tapered tap.
7. Remove tap and metal shavings.
8. Continue tapping 1/4-28 UNF bottom tap.
9. Remove tap and deburr.
10. Remove metal shavings.
11. Apply a light oil to accelerometer stud and mating surface.
12. Install accelerometer, torque between 18 and 22 in/lbs.

Tools needed

1. Half inch variable speed Drill Motor.
2. 3/16" (#12) drill bit.
3. 7/32" (#3) drill bit.
4. 1" Aircraft Counterbore with 3/16" pilot.
5. 3/32" Allen Wrench.
6. Cutting fluid, Tap Magic or equal.
7. Torque wrench calibrated in inch pounds.
8. 1/4"-28 UNF taper and bottom tap.
9. 7/8" crow foot attachment.
10. Tap handle.
11. Small ball peen hammer.
12. Center punch.
13. Light Oil.

ENVIRONMENTAL INFORMATION



This electronic equipment was manufactured according to high quality standards to ensure safe and reliable operation when used as intended. Due to its nature, this equipment may contain small quantities of substances known to be hazardous to the environment or to human health if released into the environment. For this reason, Waste Electrical and Electronic Equipment (commonly known as WEEE) should never be disposed of in the public waste stream. The “Crossed-Out Waste Bin” label affixed to this product is a reminder to dispose of this product in accordance with local WEEE regulations. If you have questions about the disposal process, please contact Metrix Customer Services.

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