

Installation Tutorials

Sensor Mounting Methods

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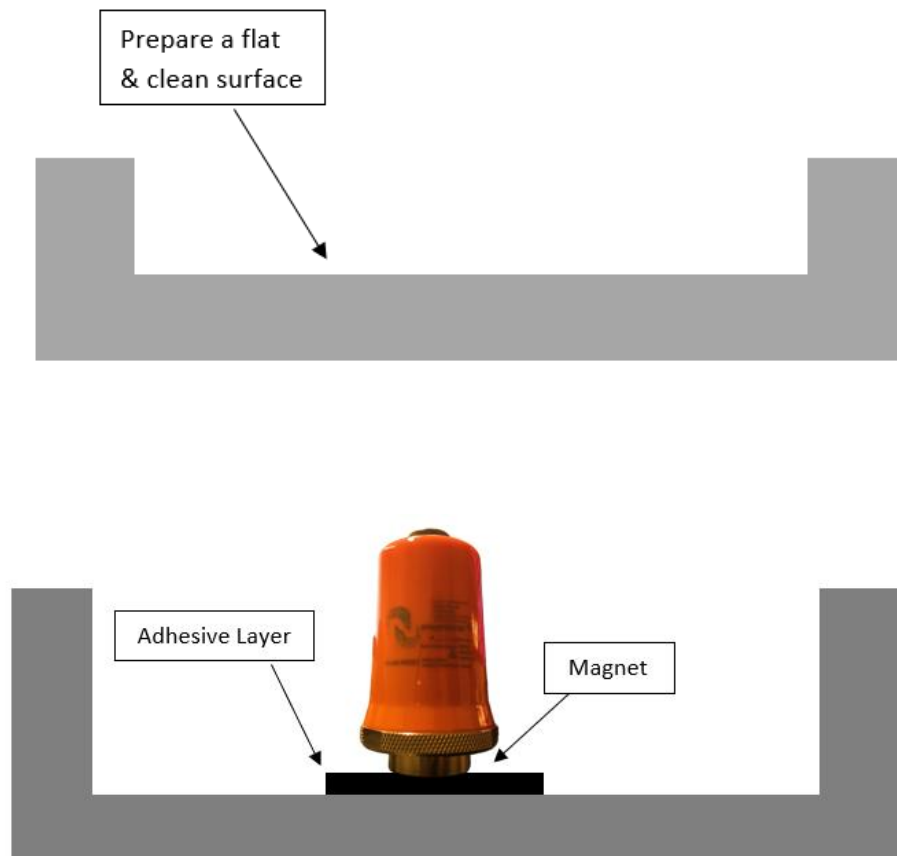
Table of Contents

1. Adhesive / Magnet Mounting Installation.....	3
2. Sensor Installation onto Mounting Hardware / Stud Mounting	4
3. Motor Fin Mount Probe / Pad Installation	5



1. Adhesive / Magnet Mounting Installation

1. Ensure mounting surface is clean and free from any residue or paint to ensure bonding of the adhesive
2. A smooth, flat mounting surface is desirable, and can be achieved by milling or grinding at the mounting surface
3. Place a small portion of adhesive on the underside of the mounting base (magnet)
4. Firmly press down the housing and magnet to mounting area to force the adhesive out from under the mounting base (magnet)
5. Hold the sensor housing onto surface for around 30s until the adhesive can support the weight of RotationLF sensor, ensuring the housing does not move or slide on the adhesive
6. Allow full cure for adhesive





2. Sensor Installation onto Mounting Hardware / Stud Mounting

1. Prepare flat surface using a spot face tool and drill pilot hole for tapping
 2. The mounting surface should be clean and free from any residue or paint
 3. Tap for desired threading (1/4" - 28UNF)
 4. Add thread locker to stud before installing sensor
 5. Hand-tighten the sensor to the mounting disk properly
- The mounting torque is important to the frequency response of the sensor for the following reasons:
- If the sensor is not tight enough, proper coupling between the base of the sensor and the mounting disk will not be achieved
 - If the sensor is over tightened, stud failure may occur





3. Motor Fin Mount Probe / Pad Installation

1. Prepare cooling fins on motor for mounting by scraping or grinding any paint or debris between cooling fins
2. Clean mounting area with a spray degreaser that will not leave a thin film lubricating residue
3. Apply adhesive to the sides and the bottom of the probe portion of the motor fin mount probe/pad (Please note: the area is roughened to enhance the bonding area)
4. Place the motor fin mount probe/pad between the motor fins at the desired location
 - The probe must fit in between the motor fins and the bottom of the probe must contact the motor casing
 - For motors that have a space greater than $\frac{1}{2}$ " between each fin, motor fin mount probe pads with a thickness of $\frac{1}{2}$ " are available and will reduce the amount of adhesive needed
5. Firmly press the motor fin mount probe/pad into place, ensuring that the bottom of the motor fin mount probe/pad is touching the motor casing (this contact area is where the vibration is transferred from the motor to the sensor)
 - The tip of the motor fin mount probe/pad should be as flat against the motor casing as possible
 - The motor fin mount probe/pad should not be resting on the top of the fins
6. Use a spatula to redirect any epoxy that has been displaced from the mounting area when pushing the fin mount probe/pad into place
7. Fill in any remaining voids with adhesive to ensure that the motor fin will be fixed in place
8. Allow full cure for the adhesive
9. Add thread locker to stud before installing the sensor

