



4908 McKenna Ct., Columbus, Ohio, 43221 USA  
Phone (614) 876-6345  
[www.aircraftextras.com](http://www.aircraftextras.com) [sales@aircraftextras.com](mailto:sales@aircraftextras.com)

## Will this sensor fit your aircraft?

Will this sensor fit 8-27-2024.doc

We would like to make certain that the sensor that you order, will fit your aircraft. We may not be able to refund any money for the sensor if it doesn't fit. If you ordered one of our standard available sensors, and it never had oil in it, and doesn't have any scars from installation, we "may" be able to refund your money. It needs to look like new. If you order a "custom designed" sensor and find that it does not fit, we will not be able to refund your money for the sensor portion of your order.

In order to help make certain that you will get a sensor that will fit your aircraft, PLEASE take the time to perform these few tasks. **Do NOT assume the sensor will fit without measuring as described below.**

Also, beware, . . . if you have several plug fittings in your oil pan, the inside obstruction distances will probably be different for each fitting hole. Some plug holes may accept different length sensors. You need to measure all possible plug holes to see which one will work best. You should use a fitting hole that will yield a sensor height, able to reach your maximum oil level.

Keep in mind, even if you do not have a fitting hole that will accept a sensor long enough to measure your entire oil quantity, . . . you will still benefit by this installing one of sensors. For example: We fly a Lycoming O-360 A1A. I phoned Lycoming. They told me that the Lycoming O-360 will run on 2 quarts of oil as a minimum. One of our oil plug fitting holes will only allow a sensor that measures 5.5 inches in height. This is only long enough to measure 6 quarts maximum. The engine takes 8 quarts for a maximum fill. This is still a great margin for safety. Our sensor is working just great in this application and will still alert us in case of danger in flight or on the ground.

We want to help make certain;

the sensor ordered will fit your oil pan fitting threads.

there is no obstruction inside the oil pan that will hit the sensor at any time.

that the sensor is 1/4 inch away from obstructions, especially at the top or at the tip of the sensor.

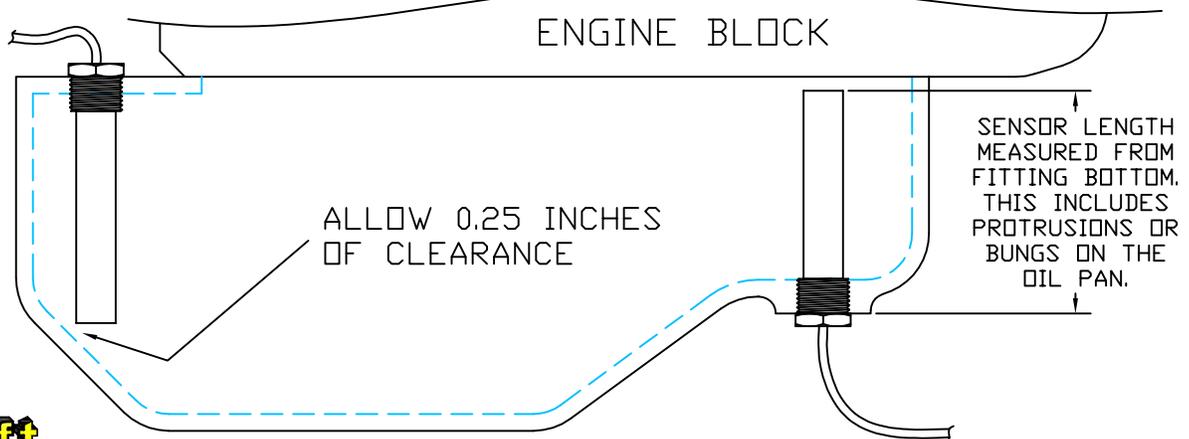
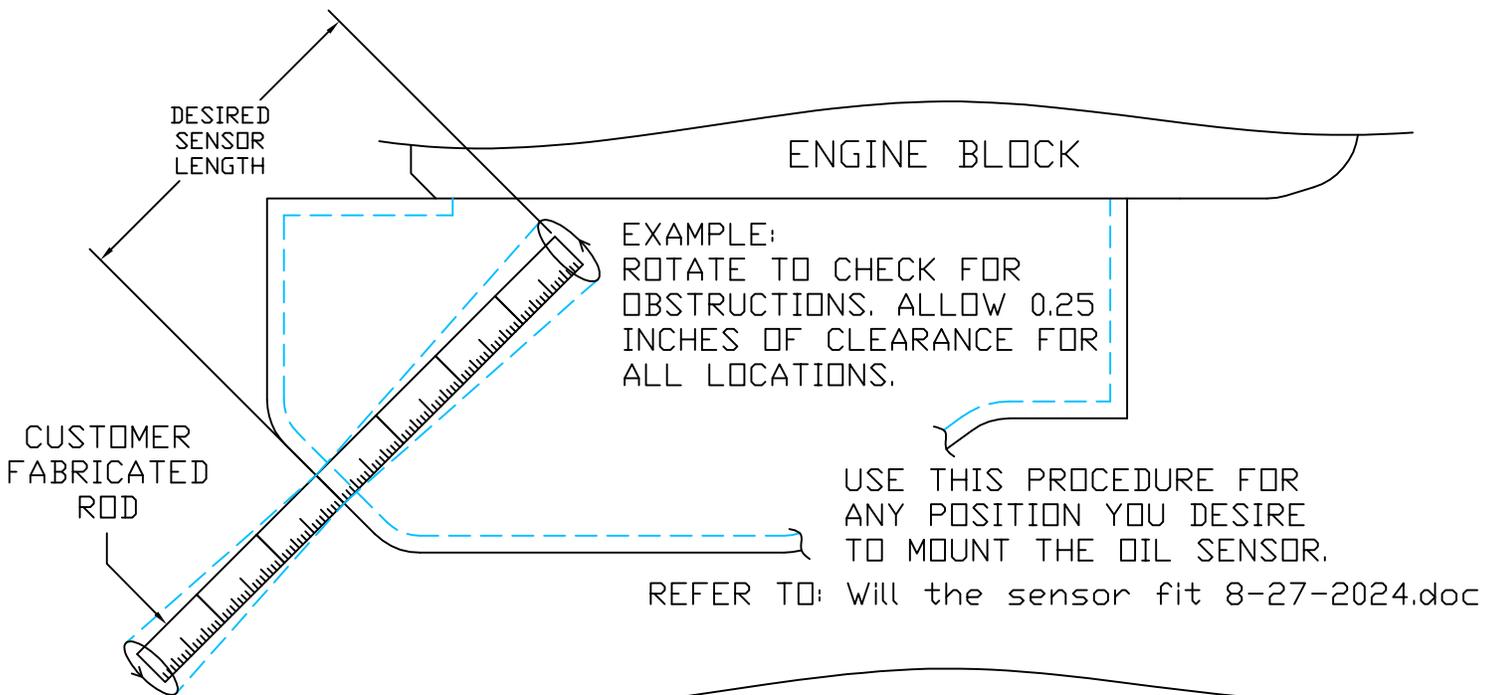
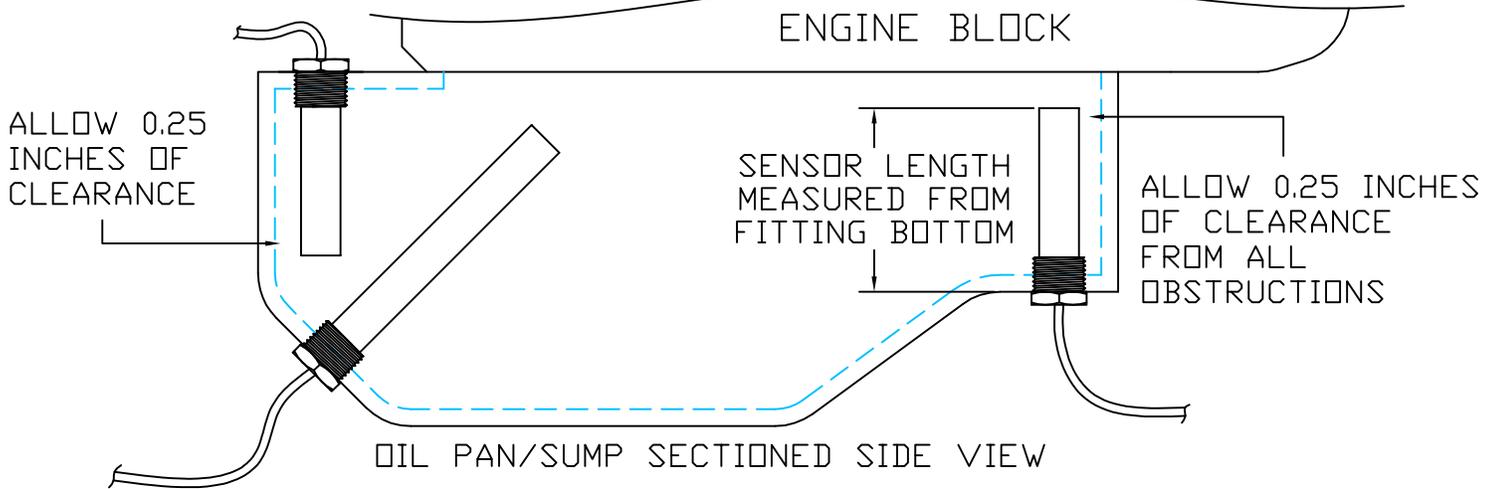
We recommend performing the following steps:

Please refer to the diagram provided.

- 1.) Remove the oil plug that you desire to replace with the oil quantity sensor.
- 2.) Prepare a metal rod or tube to insert in the oil pan plug hole. It must have an outside diameter just a bit less than the inside diameter of your plug hole.

- 3.) Put some measurement markings on it. This will allow you to determine the exact distance you are inserting it from the "very bottom of the oil pan fitting hole".
- 4.) Insert your rod thru the fitting hole (as perpendicular as you can) until it hits an obstruction. Note the distance to the bottom of the fitting.
- 5.) Now, back it out 1/4 inch. Now rotate it so that the tip of your rod moves about 1/4 inches away from center line. Again, note if it hits any obstruction. If it does, back it out a bit and repeat this step until it does not hit anything. When it seems like it does not touch anything, note the distance that you have it inserted inside the fitting hole. That will be your sensor height. The sensor should be 1/4 inches short of the "all the way in position", and "1/4 inches away from obstructions". **Order your sensor using that length.**
- 6.) Make sure that the sensor you order, will fit your oil plug fitting threads. Refer to our sensor outline and mounting drawings. Also refer to your engine's manual. If you are not sure what your fitting thread type is, you might have a mechanic check it for you.

THE OIL SENSOR CAN BE INSTALLED VERTICAL, ANGLED, OR FROM THE TOP OR BOTTOM. PLEASE REVIEW THE MANUAL FOR DETAILS AND EXCEPTIONS.



**Aircraft  
Extras** INC.

Oil Sensor Clearance Drawing 8-27-2024.dwg  
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