

# Capacitive Liquid Level Sensor for Arduino

## Product Overview

01/09/2023

For the most up-to-date information, visit [www.mouser.com](http://www.mouser.com) or the supplier's website.

## Description

DFRobot SEN0507 Capacitive Liquid Level Sensor for Arduino is designed to detect high-viscosity and low-corrosive liquids. Liquids such as glue, lubricating oil, grease, ink, engine oil, powder, and other special materials.

The sensitivity of the sensor can be adjusted by the knob in a clockwise direction to increase and in a counterclockwise to decrease to adapt to more media. The liquid level sensor includes an indicator light to feedback on the sensor status in real-time and features polarity protection and over-current protection mechanism.



## Features

- Can detect high-viscosity and low-corrosive liquids
- Conical head of anti-hanging-liquid design
- NPN+PNP dual output

## Specifications

- Detection mode:
  - Contact detection
- Detection Principle:
  - Capacitive detection
- 12V to 24V power supply voltage
- Detection Object:
  - High viscosity and low corrosive liquid
- Speed:
  - 20ms response speed
  - 50Hz switch output frequency
- Output Signal:
  - NPN+PNP Dual Output
- 100mA maximum output current
- <0.5W working power
- -25°C to 80°C working temperature
- IP65 protection level
- PEEK/316 stainless steel appearance material
- Protection Mechanism:
  - Polarity protection
  - Over-current protection
- Wiring Instructions:
  - Brown-positive, blue-negative, black-NPN, white-PNP

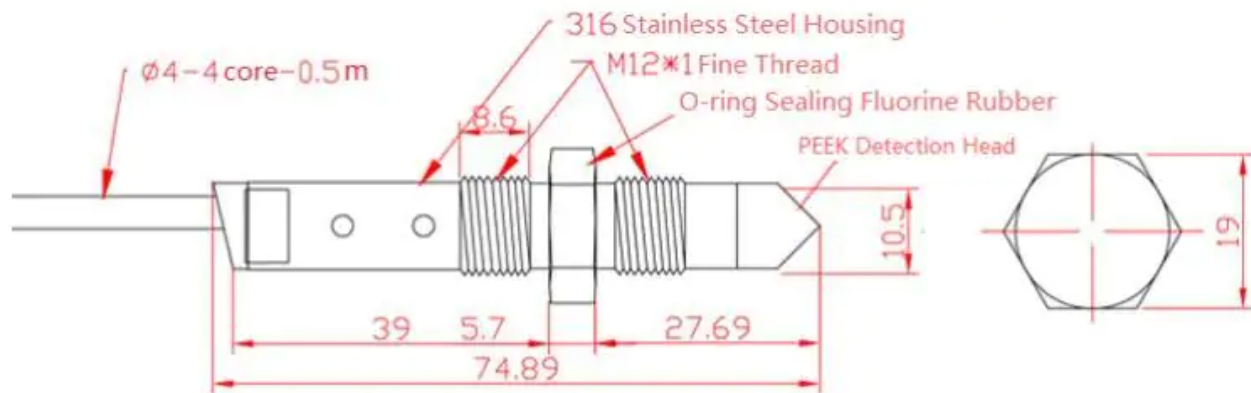
## Precautions

- The capacitive liquid level sensor should not be used in the following cases:
  - Temperature exceeds 75°C
  - Pressure higher than 0.3MP
  - There is dry glue on the probe that can't be removed

## Applications

- Detect high-viscosity and low-corrosive liquids

## Dimensions (m)



**Dimension Diagram**

## Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.in/new/dfrobot/dfrobot-level-sensor/>