

Capacitive Liquid Level Sensor for Arduino

Product Overview

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For the most up-to-date information, visit 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

<ul style="list-style-type: none">• Detection mode:<ul style="list-style-type: none">• Contact detection• Detection Principle:<ul style="list-style-type: none">• Capacitive detection• 12V to 24V power supply voltage• Detection Object:<ul style="list-style-type: none">• High viscosity and low corrosive liquid• Speed:<ul style="list-style-type: none">• 20ms response speed• 50Hz switch output frequency• Output Signal:<ul style="list-style-type: none">• NPN+PNP Dual Output• 100mA maximum output current• <0.5W working power	<ul style="list-style-type: none">• -25°C to 80°C working temperature• IP65 protection level• PEEK/316 stainless steel appearance material• Protection Mechanism:<ul style="list-style-type: none">• Polarity protection• Over-current protection• Wiring Instructions:<ul style="list-style-type: none">• Brown-positive, blue-negative, black-NPN, white-PNP
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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/>