

Introduction



This is a photoelectric liquid level sensor that is operates using traditional optical principles. The advantages of this are a high sensitivity and no need for mechanical parts - meaning less calibration! The corrosion resistant probe is easily mounted and can handle high temperatures and high pressures. The sensor is equipped with an interface adapter for compatibility with the DFRobot "Gravity" interface.

Note: Avoid placing the sensor near bright lights or in direct sunlight as these can cause interference.

Specification

Model: FS-IR02

• Type: Photoelectric Liquid Level Sensor

Operating Voltage: 5V DCOutput Current: 12mA

Operating Temperature: - 25 ~ 105 °C

Low Level Output: < 0.1 VHigh Level Output: > 4.6 V

• Liquid Level Detection Accuracy: ±0.5 mm

Material: PolycarbonateMeasuring Range: No limit

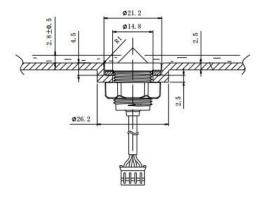
• Life: 50,000 hours

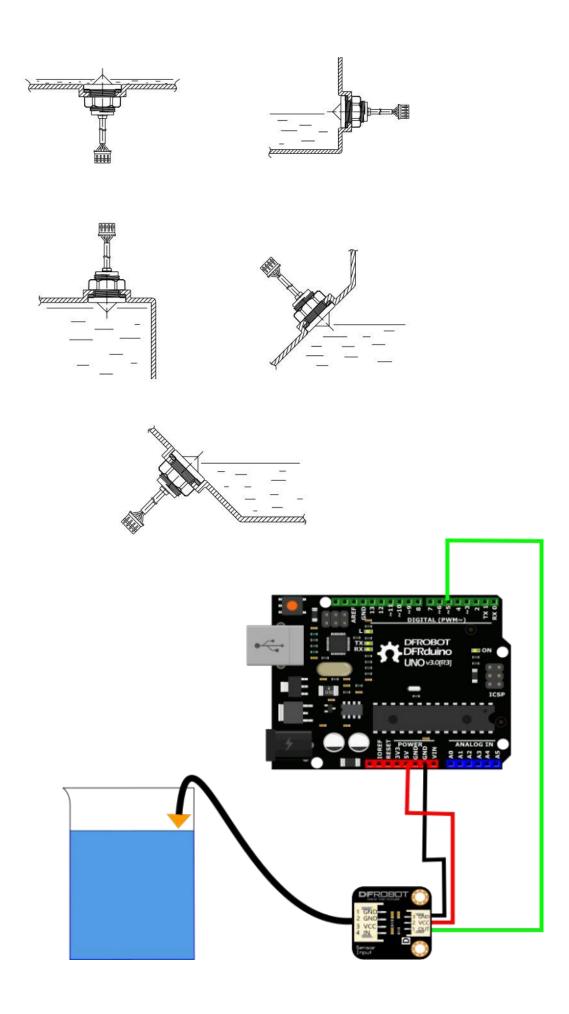
Board Overview

Liquid Level Sensor-FS-IR02 Pin Mapping		
Num.	Name	Description
Left_1	GND	Probe GND
Left_2	GND	Probe_GND
Left_3	VCC	Probe_VCC
Left_4	IN	Signal Input
Right_1	OUT	Signal Output
Right_2	VCC	VCC
Right 3	GND	GND

Liquid Level Sensor-FS-IR02 Pin Mappings		
Num.	Name	Description
1 (Red)	GND	Probe GND
2 (Yellow)	GND	Probe GND
3 (Blue)	VCC	Probe VCC
4 (Whitel)	OUT	Signal
		Output
	-	

Installation





Requirements

- Hardware
 - o DFRduino UNO x1
 - o Liquid Level Sensor-FS-IR02 x1
- Software
 - o Arduino IDE Click to Download Arduino IDE from Arduino®

Sample Code

Expected Results

When liquid comes in to contact with the sensor probe the microcontroller will output HIGH logic. When the liquid is not in contact with the probe the microcontroller will output LOW logic.

FAQ

Q&A	Some general Arduino Problems/FAQ/Tips
Α	For any questions, advice or cool ideas to
	share, please visit the DFRobot Forum .