OLS7 Series

Optical liquid level sensor 1/4”NPT mount



- ***Low cost sensors for general liquid sensing***
- ***High reliability optical sensing***
- ***External mount via 1/4”NPT thread***
- ***Standard temperature range -25ºC to +80ºC***
  Extended temperature range -40ºC to +125ºC
- ***High and Low output versions***

The OLS7 series is a liquid level sensor for single point liquid level detection.

The sensor has an infra-red emitter and detector aligned within an accurately shaped cone to give good optical coupling when the sensor is in air. This coupling is greatly reduced, when the sensor is immersed in liquid, as the infra-red light escapes through the liquid rather than being reflected back to the detector.

The sensor has a transistor output, so can be configured by the user for particular applications.

Technical Specification

Mounting style	External	Cable length - standard	25cm
Mounting thread	1/4”NPT	Wire size	24AWG
Body material	Polysulfone UDEL 1700	Cable conductor material	Tinned copper
Temperature Range	-25 to +80ºC/-40º to +125ºC	Wire sheath material	PTFE
Maximum pressure	7bar	Wire temperature rating	125ºC
Tightening torque for fixing	1.5Nm/13.26lbs in	Sealing gasket	Not supplied

Electrical Specification

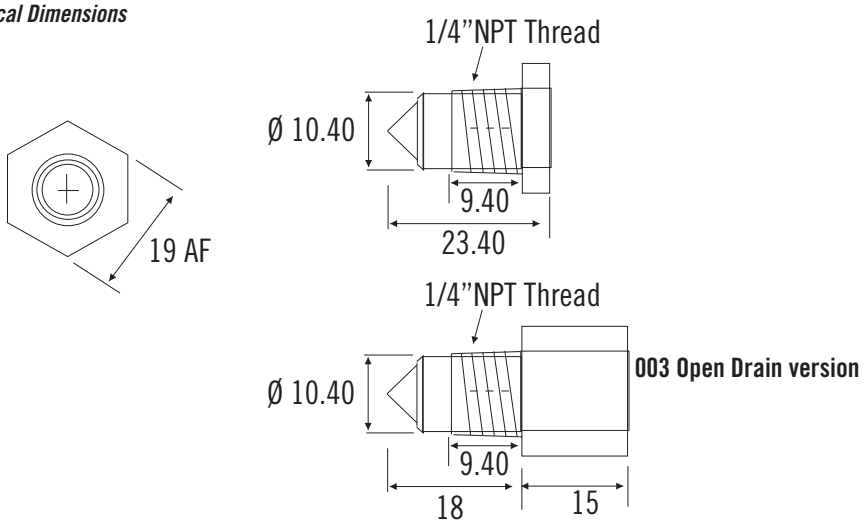
Supply Voltage (Vs)	Vdc	4.5 to 15.4	or	10 to 28
Supply Current Max (Is)	mA	2.5 (Vs = 15.4Vdc)		
Output type		Voltage High or Low		
Output Voltage (Vout) @ Iout=100mA		Output High Vout = Vs-1V max		Output Low Vout = 0.5Vmax
Output Sink & Source Current Iout		100mA max	or	1A

Sensor connections Red= supply +ve, Blue= common(0V), Green= Output

Standard Parts	Mount	Temp Range ºC	Supply Volts V	Output	
OLS700D3SH	1/4”NPT	-25 to +80	5 to 15dc	High in air	Volts
OLS700D3LSH	1/4”NPT	-25 to +80	5 to 15dc	Low in air	Volts
OLS710D3SH	1/4”NPT	-40 to +125	5 to 15dc	High in air	Volts
OLS710D3LSH	1/4”NPT	-40 to +125	5 to 15dc	Low in air	Volts
OLS710D324-003	1/4”NPT	-40 to +125	10 to 28dc	High in air	Open drain
OLS710D3L24-003	1/4”NPT	-40 to +125	10 to 28dc	Low in air	Open drain

Custom versions can be made for particular applications. Please contact Cynergy3 with your requirements.

Mechanical Dimensions



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Installation
The sensor can be mounted in either the side or the bottom of a tank. It must not be mounted in the top of a tank with the cone downwards.

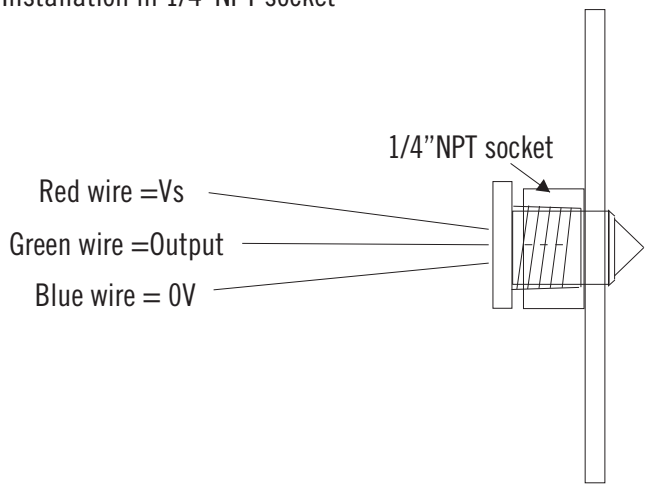
This sensor requires a 1/4”NPT thread socket connection.

The sensor should be screwed into the 1/4”NPT socket but should not be overtightened.

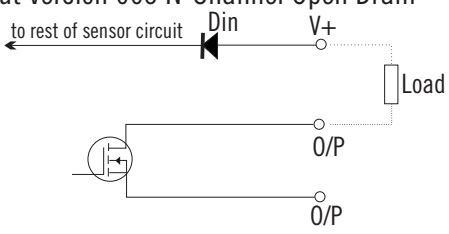
Cleaning
Proper fluids should be selected based on the type of contamination to be removed. It is recommended that freon or alcohol based solvents are used.
DO NOT USE chlorinated solvents such as trichloroethylene as these are likely to attack the sensor housing material.

Liquid Media Compatibility
Check that the fluid in which you wish to use the sensor is compatible with Polysulfone.

Installation in 1/4”NPT socket



Output version 003 N-Channel Open Drain



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