



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 -25°C to +80°C Extended temperature range -40°C to +125°C
- High and Low output versions
- Resistant to false triggering caused by foaming



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 +80°C/-40° to +125°C	Wire sheath material	PTFE
Maximum pressure	7bar	Wire temperature rating	125°C
Tightening torque for fixir	ıg1.5Nm/13.26lbs in	Sealing gasket Not supp	olied

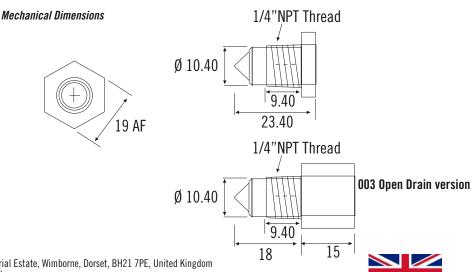
F	lec	tri	cal	S	ne	cit	fic	at	ini
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Supply Voltage (Vs) Vdc	4.5 to 15.4 or	10 to 28
Supply Current Max (Is) mA	2.5 (Vs = 15.4Vdc)	
Output type	Voltage High or Low	
Output Voltage (Vout) @ lout=100m	A Output High Vout = $Vs-1V$ max	Output Low Vout = 0.5 Vmax
Output Sink & Source Current lout	100mA max or	1A

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

Temp Range °C	Supply Volts V Output
-25 to +80	5 to 15dc High in air Volts
-25 to +80	5 to 15dc Low in air Volts
-40 to +125	5 to 15dc High in air Volts
-40 to +125	5 to 15dc Low in air Volts
-40 to +125	10 to 28dc High in air Open drain
-40 to +125	10 to 28dc Low in air Open drain
	-25 to +80 -25 to +80 -40 to +125 -40 to +125 -40 to +125

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



www.cvnergv3.com







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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 connection.

The sensor should be screwed into a 1/4"NPT socket and should not be overtightened.

Cleaning

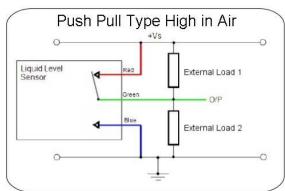
Proper fluids should be selected based on the type of contamination to be removed. It is recommended that freon or alcohol based solvents are used. DO NOT USE chlorinated solvents such as trichloroethylene as these are likely to attack the sensor housing material.

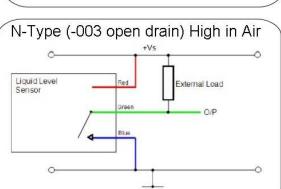
Liquid Media Compatibility

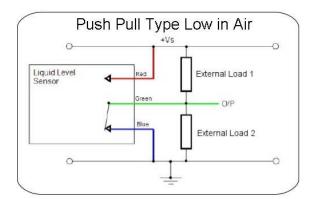
Check that the fluid in which you wish to use the sensor is compatible with Polysulfone.

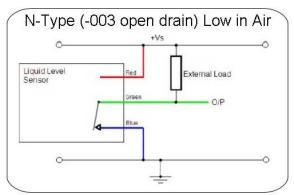
Installation in 1/4"NPT socket Red wire =+Vs Green wire =Output Blue wire = 0V

Electrical Connections









Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Sensata:

OLS700D3LSH OLS700D3SH OLS710D324-003 OLS710D3SH