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OLS2 Series **Optical liquid level sensor - External M12 mount**



The OLS2 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.

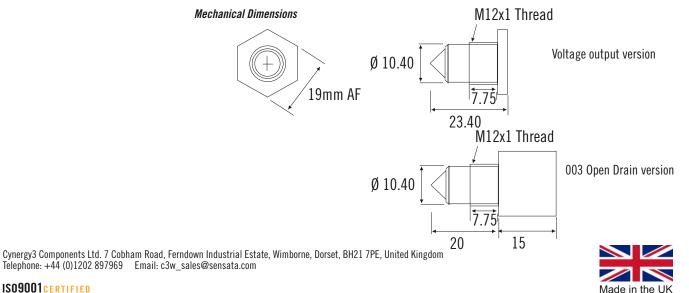
Output is via TTL compatible push pull output.

- Low cost sensors for general liquid sensing
- High reliability optical sensing
- External mount via M12x1 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

Technical Specification								
Mounting style	External		Cable len	gth - standard	25cm			
Mounting thread	M12x1		Wire size		24AWG			
Body material	Polysulfone	UDEL 1700	Cable con	ductor material	Tinned copper			
Temperature Range	-25 to +80°	C/-40° to +125°C	Wire shea	th material	PTFE			
Maximum pressure	7bar		Wire temperature rating		125°C			
Tightening torque for fixing1.5Nm/13.26lbs in			Sealing gasket		Not supplied			
Mounting hole	12mm							
Note. LLPK1 - 'O' ring and M12 nut kit - is available as an optional extra.								
Electrical Specification								
Supply Voltage (Vs)	Vdc	4.5 to 15.4	or	10 to 28				
Supply Current Max (Is)	mA	2.5 (Vs = 15.4)	/dc)					
Output type Voltage High or Low (L in part number indicates low)								
Output Voltage (Vout) @ lout=100mA Out		Output High Vout =	Vs-1V max	Output Low Vou	t = 0.5Vmax			
Output Sink & Source Current lout		100mA max	or	1A				
Sensor connections	Red= supply overleaf)	r +ve, Blue= commor	n(OV), Green=	= Output (see wiri	ng diagrams			

Standard Parts	Mount	Temp Range °C	Supply Volts V	Output	
OLS200D3SH	M12x1	-25 to +80	5 to 15dc	High in air	Volts
OLS200D3LSH	M12x1	-25 to +80	5 to 15dc	Low in air	Volts
OLS210D3SH	M12x1	-40 to +125	5 to 15dc	High in air	Volts
OLS210D3LSH	M12x1	-40 to +125	5 to 15dc	Low in air	Volts
OLS210D324-003	M12x1	-40 to +125	10 to 28dc	High in air	Open drain
OLS210D3L24-003	M12x1	-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.



IS09001certified

cynergy3-ols2-v3

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Red wire =+Vs

Blue wire = 0V

Green wire =Output

OLS2 Series Optical liquid level sensor - External M12 mount

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 hole of 12mm minimum or an M12x1 thread socket connection. The hole should be in a flat surface and be free of burrs.

The sensor with suitable gasket should be inserted into the hole and a fixing nut fitted on the M12 thread on the inside of the tank. Alternatively the sensor can be screwed into a M12x1 socket. The sensor should not be over tightened.

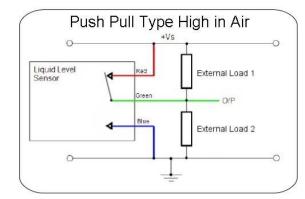
Cleaning

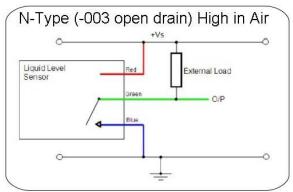
Proper fluids should be selected based on the type of contamination to be removed. It is recommended that freon or alcohol based solvents are used. DO NOT USE chlorinated solvents such as trichloroethylene as these are likely to attack the sensor housing material.

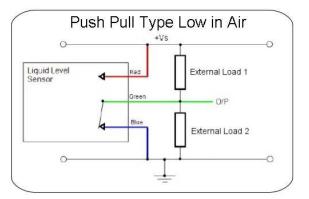
Liquid Media Compatibility

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

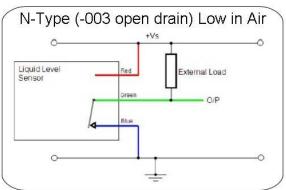
Electrical Connections







Fixing nut M12x1



Note. LLPK1 - Nitrile 'O' ring and Nickel plated brass M12 nut kit - is available as an optional extra.

"0" ring gasket

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Sensata:

OLS200D3LSH OLS200D3SH OLS210D3L24-003 OLS210D3SH