



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





# OLS2 Series

## Optical liquid level sensor 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**

### Technical Specification

Mounting style	External	Cable length - standard	25cm
Mounting thread	M12x1	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 fixing	1.5Nm/13.26lbs in	Sealing gasket	Not supplied
Mounting hole	12mm		

### Electrical Specification

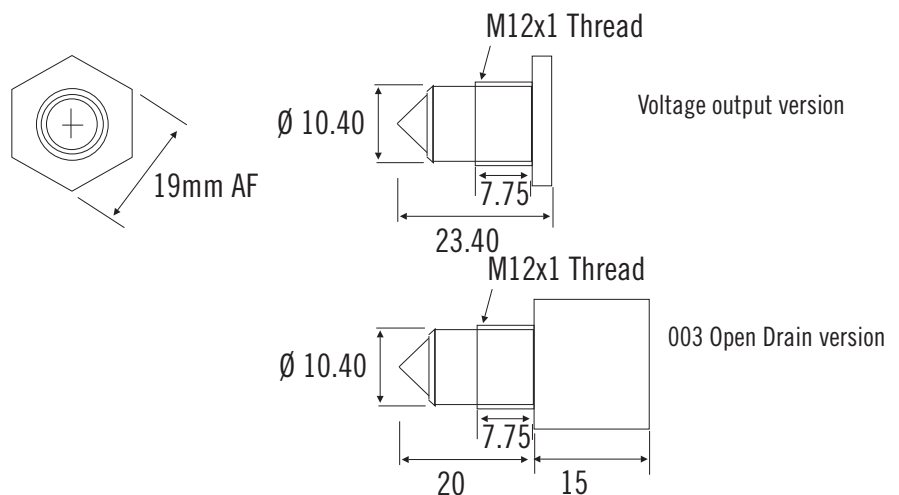
Supply Voltage (Vs)	Vdc	4.5 to 15.4	or	10 to 28
Supply Current Max (Is)	mA	2.5 (Vs = 15.4Vdc)		
Output type		Voltage High or Low (L in part number indicates low)		
Output Voltage (Vout) @ Iout=100mA		Output High Vout = Vs-1V max		Output Low Vout = 0.5Vmax
Output Sink & Source Current Iout		100mA max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

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

Standard Parts	Mount	Temp Range °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.

### Mechanical Dimensions



Cynergy3 Components Ltd.  
7 Cobham Road  
Ferndown Industrial Estate  
Wimborne, Dorset BH21 7PE  
Telephone +44 (0) 1202 897969  
Email:sales@cynergy3.com

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OLS2 2015

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## OLS2 Series

### Optical liquid level sensor 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 overtightened.

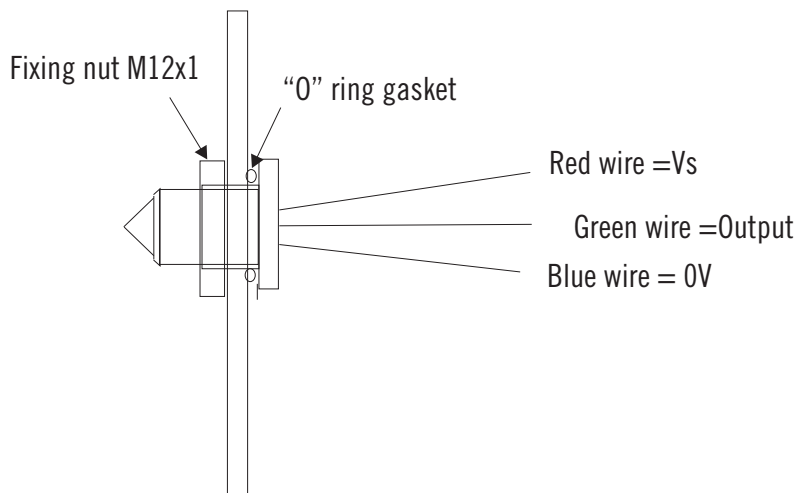
#### Cleaning

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.

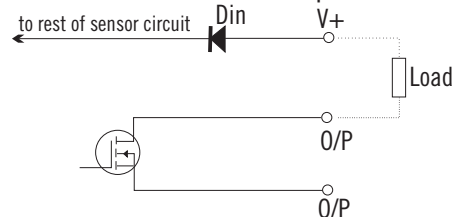
DO NOT USE chlorinated solvents such as trichloroethylene as these are likely to attack the sensor housing material.

#### Liquid Media Compatibility

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



#### Output version 003 N-Channel Open Drain



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