

# Optomax Series LLT200D3SH

## Liquid Level Sensor

### GENERAL DESCRIPTION

The liquid level sensor provides single point liquid detection via a TTL compatible push pull output.

An infra-red LED and phototransistor accurately positioned at the base of the sensing tip ensure good optical coupling between the two when the sensor is in air. When the sensing tip is immersed in liquid, the infra-red light escapes from the cone causing a change in the amount of light present at the phototransistor which makes the output change state.

### CLEANING

Proper fluids should be selected based on type of contamination to be removed. APOLLO recommends freon and alcohol based solvents. DO NOT use chlorinated solvents such as trichlorethane as these are likely to attack the sensor material.

### Liquid Media Compatibility

Before use check that the fluid in which you wish to use these devices is compatible either with polysulphone or trogamid.

### ELECTRICAL SPECIFICATIONS

Supply Voltage (Vs)	+4.5 Vdc to +15.4Vdc
Supply Current (Is)	Max 2.5mA (Vs = 15.4Vdc)
Output Sink and Source Current (Iout)	100mA
Operating Temperature	-25°C to +80°C (Standard)
Storage Temperature	-30°C to +85°C (Standard)

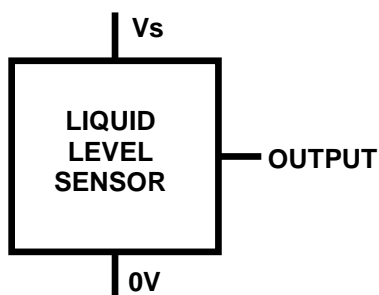
Output Voltage (Vout) Iout = 100mA	<b>Output High</b> Vout = Vs - 1V Max <b>Output Low</b> Vout = 0V + 0.5V Max
Output Voltage (Vout) Iout = 0mA	<b>Output High</b> Vout = Vs - 0.3V Max <b>Output Low</b> Vout = 0V + 0.1V Max

### MOUNTING AND HOUSING TYPE

Housing Style	200
Thread	M12x1x8g with Hex Nut*
Tightening Torque	1.5 N m/13.26 in lb max.
Pressure (when correctly sealed)	7 bar max
Mounting Hole	Ø12mm
Housing Material	Polysulphone or Trogamid
Sensor Termination	24AWG, 250mm PTFE Wires, 8mm Tinned

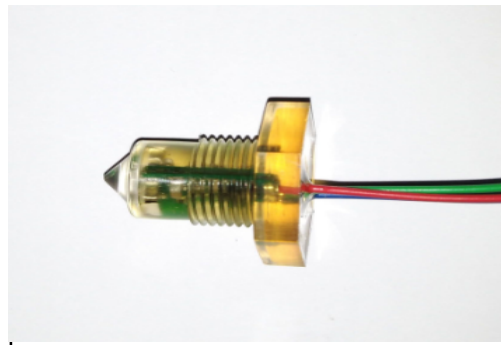
\* Hex nut and o-ring sold separately, please contact us for details.

### Sensor Output Wiring



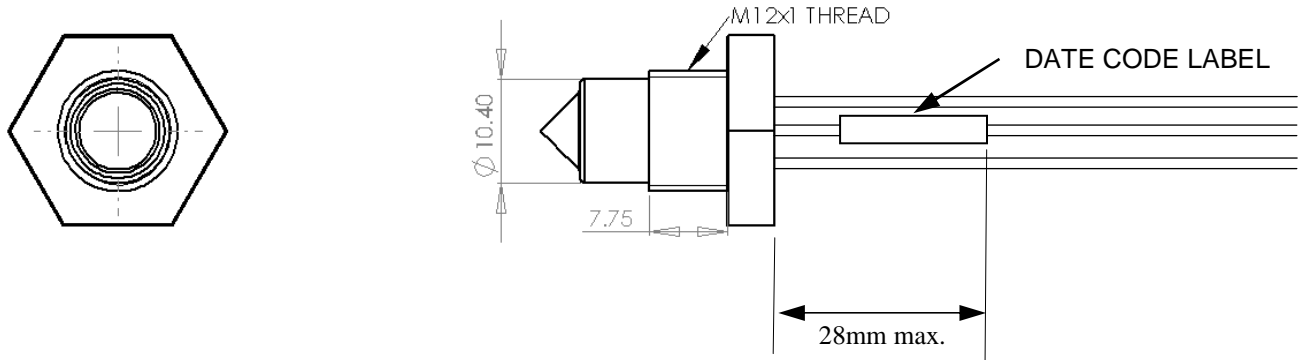
WIRE	DESIGNATION
RED	Vs
GREEN	OUTPUT
BLUE	0V

### LLT200D3SH



**PRODUCT DIMENSIONS**  
(All dimensions in mm)

**200 Series (Mounted from Outside)**



SENSOR MOUNTED FROM OUTSIDE VESSEL

