



### **Optomax** Industrial Series

### FEATURES

- Liquid level switches that can detect almost any liquid type; oil or water based
- Choice of material; Polysulfone (standard) or Trogamid®
- Choice of threads











#### **Output Type / Logic**











#### Supply Voltage





#### **Output** Current



#### Temp





### 🚜 BENEFITS

- High power
- Industrial supply voltage
- Direct load drive design

### **OUTPUT VALUES**

Output Voltage<sup>3</sup> (Vout): lout = 1A

 $Vs = 4.5 - 15.4 V_{DC}$ 

**Output High** Vout = Vs - 1.5V max Vout = 0V + 0.5V maxOutput Low

Output Voltage (Vout): lout = 1A

 $Vs = 8 - 30V_{DC}$ 

Output High Vout = Vs - 1.8V max Output Low Vout = 0V + 0.7V max

## X TECHNICAL SPECIFICATIONS

Supply voltage (Vs)

 $4.5V_{DC}$  to  $15.4V_{DC}$ 

or

 $8V_{DC}$  to  $30V_{DC}$ 

Supply current (Is)

2.5mA max. (Vs = 15.4V<sub>DC</sub>)

7.5mA max. (Vs =  $30V_{DC}$ )

Output sink and source

current (lout)

1A

Operating temperatures

Standard: -25°C to +80°C

Storage temperatures

Extended: -40°C to +125°C

Standard: -30°C to +85°C Extended: -40°C to +125°C

Housing material<sup>1, 2</sup> Sensor termination

Polysulfone or Trogamid® 20AWG, 250mm PTFE wires, 8mm tinned

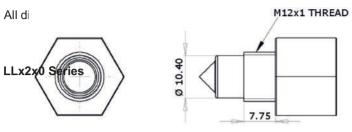
Other sensor options available on request



- Above +85°C, Trogamid is suitable for water based liquids. Oil based liquids can cause deformation of the sensing tip and must be tested for compatibility.
- Before use check that the fluid in which you wish to use these devices is compatible either with Polysulfone or
- Voltages applicable to output value stated.

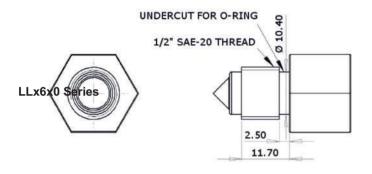
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# OUTLINE DRAWING

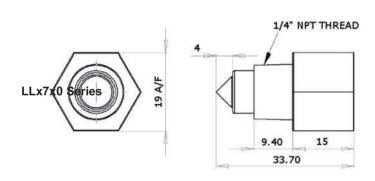


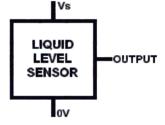


|                       | Housing Series                        |                                      |                       |
|-----------------------|---------------------------------------|--------------------------------------|-----------------------|
|                       | 2x0                                   | 6x0                                  | 7x0                   |
| Thread                | M12x1x8g<br>with hex nut <sup>1</sup> | 1/2" SAE with<br>O-ring <sup>1</sup> | 1/4" NPT <sup>2</sup> |
| Pressure <sup>3</sup> | 7 bar /101 psi maximum                |                                      |                       |
| Tightening<br>Torque  | 1.5 Nm / 13.26 in-lbs maximum         |                                      |                       |









| Wire  | Designation |  |
|-------|-------------|--|
| Red   | Vs          |  |
| Green | Output      |  |
| Blue  | 0V          |  |

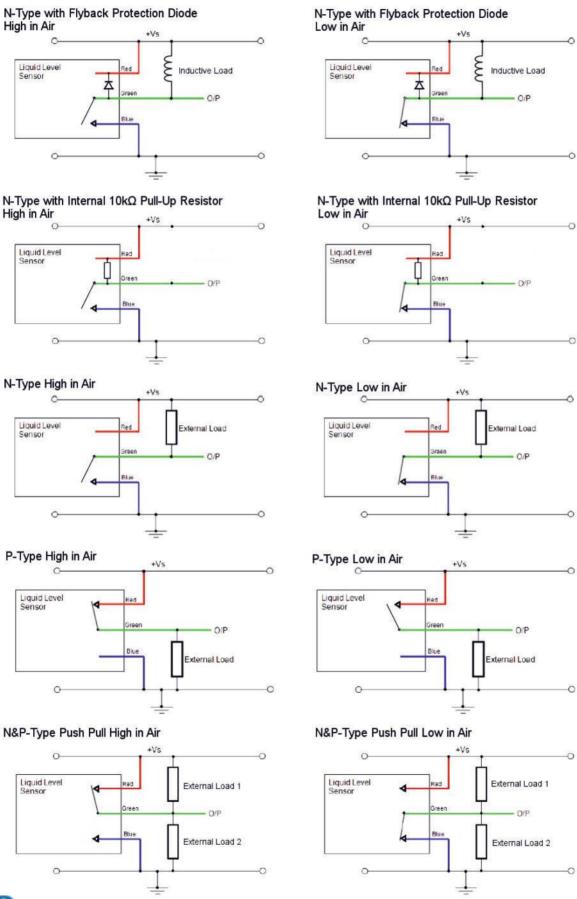


- Hex nut and O-ring sold separately; please email for details.
- 2) NPT version can be sealed with PTFE tape.
- 3) When correctly sealed.

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In order to suit any application, these sensors have been designed with various output circuit configurations. They are identified by the 3-digit code at the end of the part number as shown in Order Information.



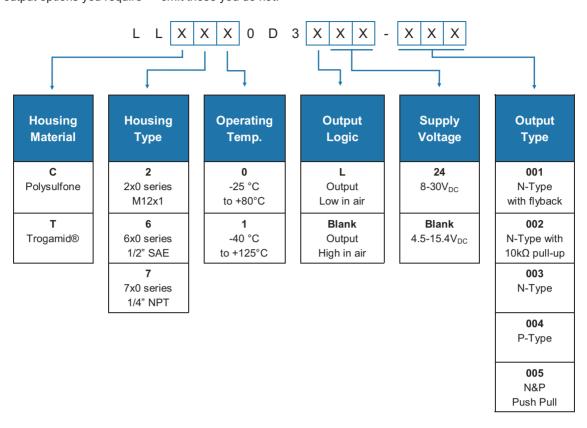
CAUTION: Take care when connecting loads.

The minimum load impedance should not exceed Vs/max output current.

Note: Shorting the output to Vs or 0V will result in irreparable damage to the sensor.



Generate your specific part number using the convention shown below. Use only those letters and numbers that correspond to the sensor and output options you require — omit those you do not.





DS-0034 REV 13

Do not exceed maximum ratings and ensure sensor(s) are operated in accordance with their requirements.

Carefully follow all wiring instructions. Incorrect wiring can cause permanent damage to the device.

SST Sensing Ltd recommend using alcohol based cleaning agents. Do NOT use chlorinated solvents such as trichloroethane as these are likely to attack the sensor material.

Failure to comply with these instructions may result in product damage.

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### (1) INFORMATION

As customer applications are outside of SST Sensing Ltd.'s control, the information provided is given without legal responsibility. Customers should test under their own conditions to ensure that the equipment is suitable for their intended application. Before use, check that the fluid in which you wish to use these devices is compatible with Polysulfone or Trogamid®.

**General Note:** SST Sensing Ltd. reserves the right to make changes to product specifications without notice or liability. All information is subject to SST Sensing Ltd.'s own data and considered accurate at time of going to print.

RoHS