DATA SHEET Liquid Level Switches

DESIGN • MANUFACTURE • CUSTOMISE • CONFIGURE

Optomax Industrial Series



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



Housing/ **Mounting**







Output Type / Logic











Supply Voltage





Output Temp



Current





BENEFITS

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

OUTPUT VALUES

Output Voltage³ (Vout): lout = 1A

 $Vs = 4.5 - 15.4 V_{DC}$

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

Output Voltage (Vout): lout = 1A

 $Vs = 8-30V_{DC}$

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

TECHNICAL SPECIFICATIONS

Supply voltage (Vs)

 $4.5V_{DC}$ to $15.4V_{DC}$ $8V_{DC}$ to $30V_{DC}$ or

Supply current (Is)

2.5mA max. (Vs = 15.4V_{DC}) 7.5mA max. (Vs = $30V_{DC}$)

Output sink and source

or

current (lout)

1A

Operating temperatures

Standard: -25°C to +80°C Extended: -40°C to +125°C

Storage temperatures

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

Housing material^{1, 2} Sensor termination

Polysulfone or Trogamid® 20AWG, 250mm PTFE

wires, 8mm tinned

Other sensor options available on request, email:

technical@sstsensing.com

Need help? Ask the expert Tel: + 44 (0)1236 459 020 and ask for "Technical"



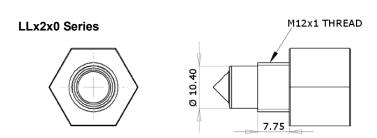


- Above +85°C, Trogamid is suitable for water based liquids. Oil based liquids can cause deformation of the sensing tip and must be tested for compatibility.
- 2) Before use check that the fluid in which you wish to use these devices is compatible either with Polysulfone or
- Voltages applicable to output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

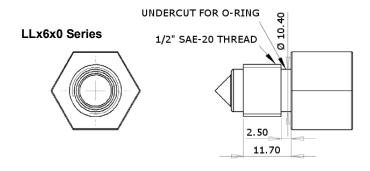




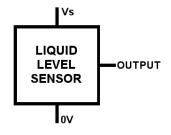
All dimensions shown in mm. Tolerances = ± 1 mm.



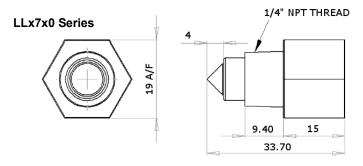
	Housing Series		
	2x0	6x0	7x0
Thread	M12x1x8g with hex nut ¹	1/2" SAE with O-ring ¹	1/4" NPT ²
Pressure ³	7 bar /101 psi maximum		
Tightening Torque	1.5 Nm / 13.26 in-lbs maximum		







Wire	Designation	
Red	Vs	
Green	Output	
Blue	0V	

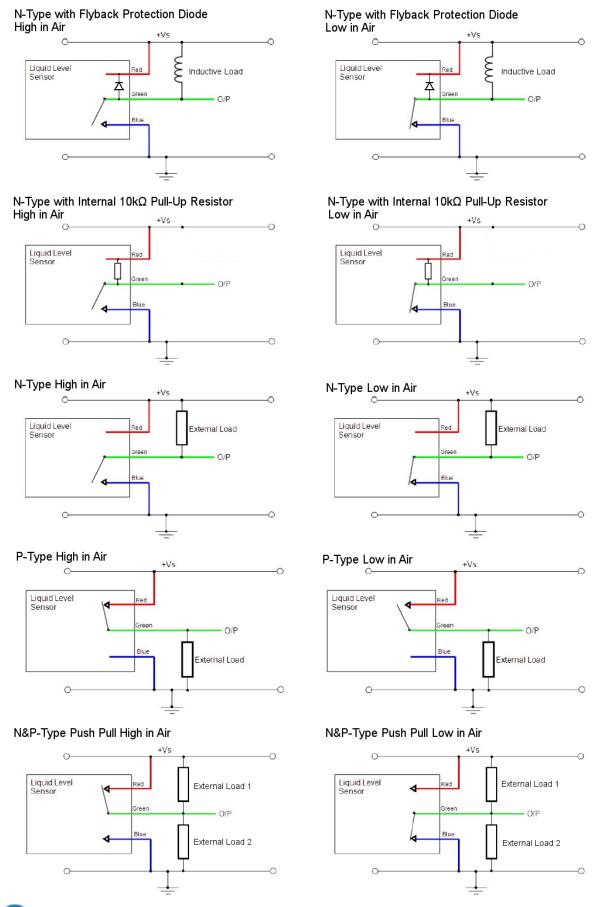




-) Hex nut and O-ring sold separately; email: technical@sstsensing.com for details.
- 2) NPT version can be sealed with PTFE tape.
- 3) When correctly sealed.

CIRCUIT DIAGRAMS

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.



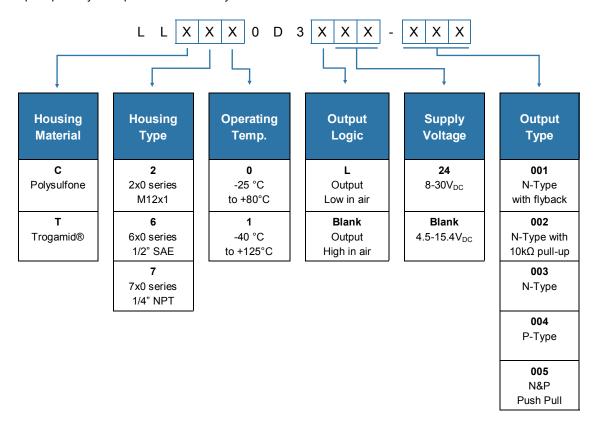
CAUTION: Take care when connecting loads.

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.





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.

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®.

For technical assistance or advice, please email: technical@sstsensing.com

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.



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