# 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** 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 **Output Low** Vout = 0V + 0.5V max

Output Voltage (Vout): lout = 1A

 $Vs = 8-30V_{DC}$ 

technical@sstsensing.com

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<sub>DC</sub>) 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

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

Extended: -40°C to +125°C Polysulfone or Trogamid® 20AWG, 250mm PTFE

wires, 8mm tinned

Tel: + 44 (0)1236 459 020



Need help? Ask the expert

Other sensor options available on request, email:



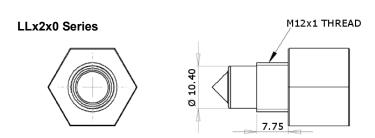


- Above +85°C, Trogamid is suitable for water based liquids. Oil based liquids can cause deformation of the sensing tip and must be tested for compatibility.
- 2) Before use check that the fluid in which you wish to use these devices is compatible either with Polysulfone or
- Voltages applicable to output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

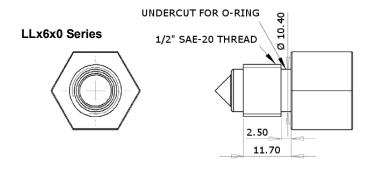




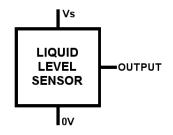
All dimensions shown in mm. Tolerances =  $\pm 1$ mm.



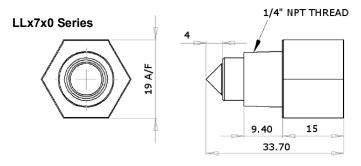
	Housing Series		
	2x0	6x0	7x0
Thread	M12x1x8g with hex nut <sup>1</sup>	1/2" SAE with O-ring <sup>1</sup>	1/4" NPT <sup>2</sup>
Pressure <sup>3</sup>	7 bar /101 psi maximum		
Tightening Torque	1.5 Nm / 13.26 in-lbs maximum		

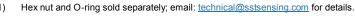






Wire	Designation	
Red	Vs	
Green	Output	
Blue	0V	



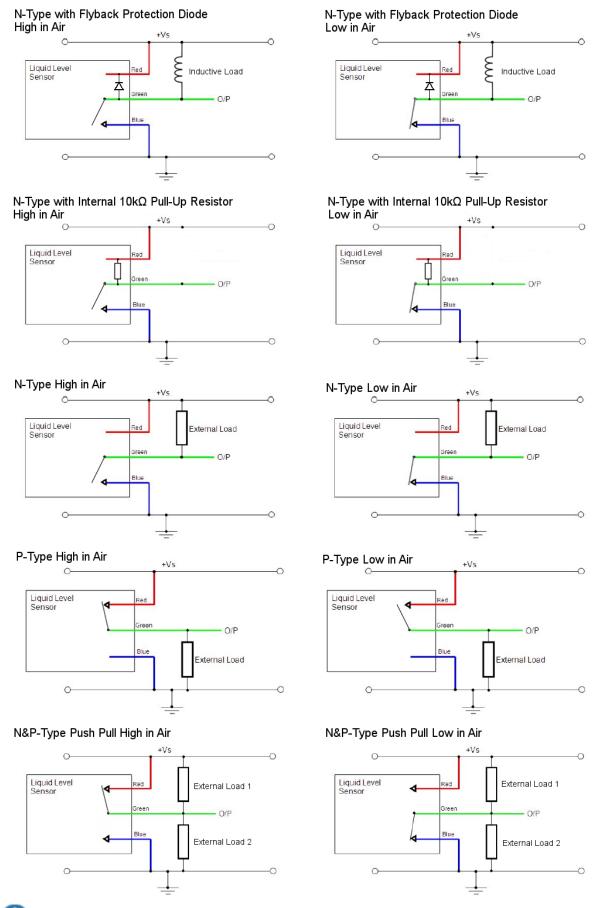


- 2) NPT version can be sealed with PTFE tape.
- 3) When correctly sealed.



# 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.