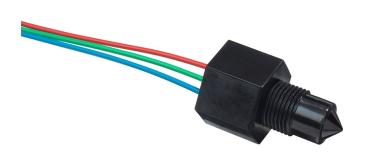
# DATA SHEET Liquid Level Switches

## 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 maxOutput Low Vout = 0V + 0.5V max

Output Voltage (Vout): lout = 1A

Vs = 8-30V<sub>DC</sub>

technical@sstsensing.com

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

## TECHNICAL SPECIFICATIONS

Supply voltage (Vs)

 $\begin{array}{cc} 4.5V_{DC} \, to \, \, 15.4V_{DC} \\ or & 8V_{DC} \, to \, \, 30V_{DC} \end{array}$ 

Supply current (Is)

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

or Output sink and source

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

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

Other sensor options available on request, email:



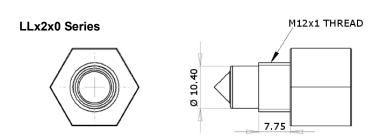


- Above +85°C, Trogamid is suitable for water based liquids. Oil based liquids can cause deformation of the sensing tip and must be tested for compatibility.
- Before use check that the fluid in which you wish to use these devices is compatible either with Polysulfone or Trogamid®.
- 3) Voltages applicable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

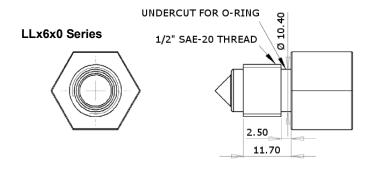




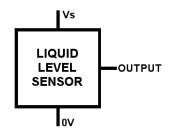
All dimensions shown in mm. Tolerances =  $\pm 1$ mm.



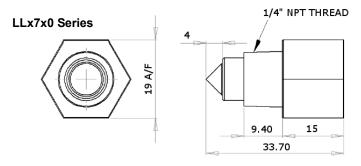
	Housing Series		
	2x0	6x0	7x0
Thread	M12x1x8g with hex nut <sup>1</sup>	1/2" SAE with O-ring <sup>1</sup>	1/4" NPT <sup>2</sup>
Pressure <sup>3</sup>	7 bar /101 psi maximum		
Tightening Torque	1.5 Nm / 13.26 in-lbs maximum		







Wire	Designation	
Red	Vs	
Green	Output	
Blue	0V	

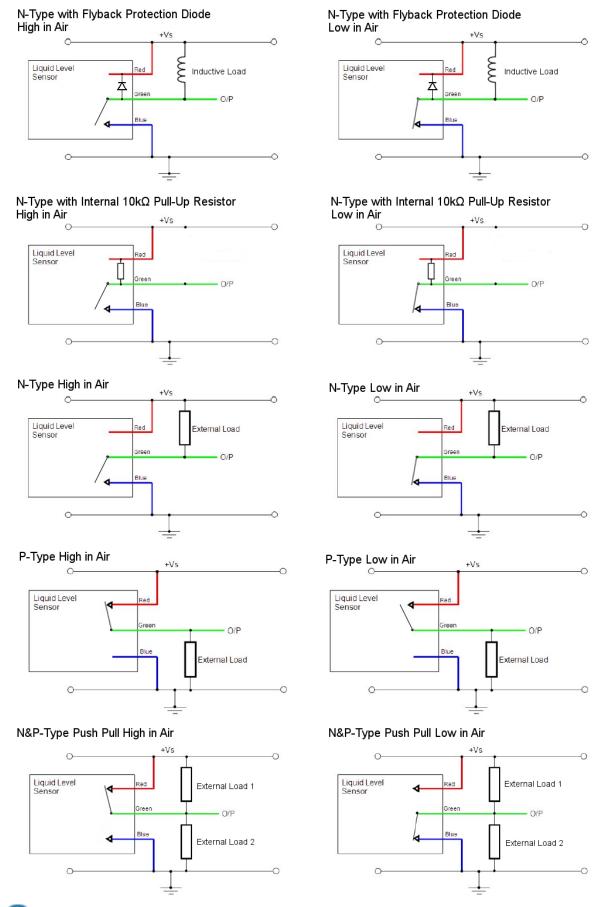


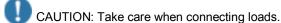
- Hex nut and O-ring sold separately; email: <a href="technical@sstsensing.com">technical@sstsensing.com</a> for details.
- 2) NPT version can be sealed with PTFE tape.
- 3) When correctly sealed.



## 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.





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.