

DATA SHEET

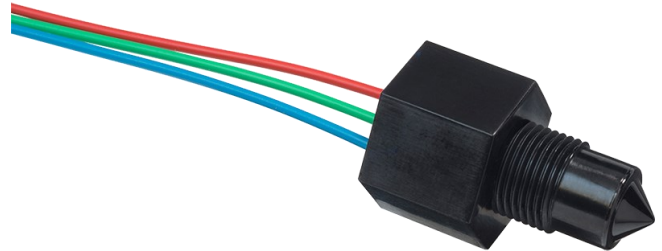
Liquid Level Switches

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



Housing/ Mounting <ul style="list-style-type: none">M12x11/4" NPT1/2" SAE	Output Type / Logic <ul style="list-style-type: none">N-TYPEP-TYPEPUSH PULLHIGH IN AIRLOW IN AIR	Supply Voltage <ul style="list-style-type: none">4.5 - 15.4 V VOLTAGE8 - 30 V VOLTAGE	Output Current <ul style="list-style-type: none">UP TO 1A CURRENT	Temp <ul style="list-style-type: none">-25°C to +80°C TEMPERATURE-40°C to +125°C TEMPERATURE
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BENEFITS

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

OUTPUT VALUES

Output Voltage³ (Vout): Iout = 1A

Vs = 4.5—15.4V_{DC}

Output High

Vout = Vs - 1.5V max

Output Low

Vout = 0V + 0.5V max

Output Voltage (Vout): Iout = 1A

Vs = 8—30V_{DC}

Output High

Vout = Vs - 1.8V max

Output Low

Vout = 0V + 0.7V max

Other sensor options available on request, email:

technical@sstsensing.com

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 _{DC})
or	7.5mA max. (Vs = 30V _{DC})
Output sink and source current (Iout)	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}	Polysulfone or Trogamid®
Sensor termination	20AWG, 250mm PTFE wires, 8mm tinned

Need help? Ask the expert

**Tel: + 44 (0)1236 459 020
and ask for "Technical"**

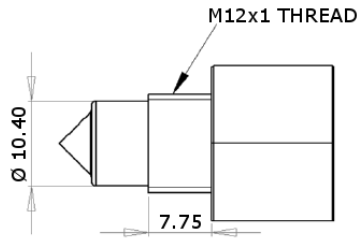
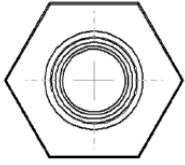


- 1) Above +85°C, Trogamid is suitable for water based liquids. Oil based liquids can cause deformation of the sensing tip and must be tested for compatibility.
- 2) Before use check that the fluid in which you wish to use these devices is compatible either with Polysulfone or Trogamid®.
- 3) Voltages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

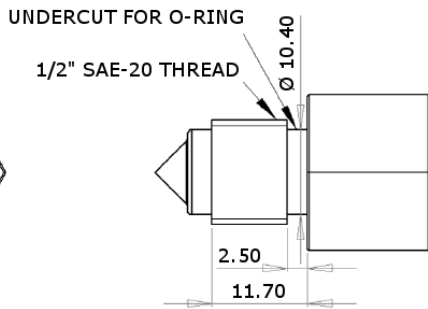
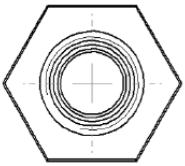
OUTLINE DRAWING

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

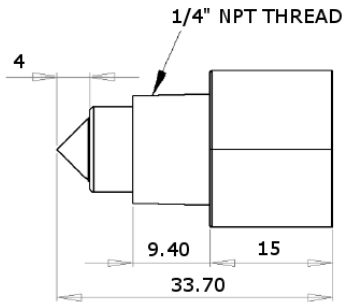
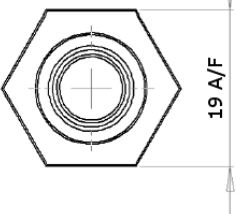
LLx2x0 Series



LLx6x0 Series



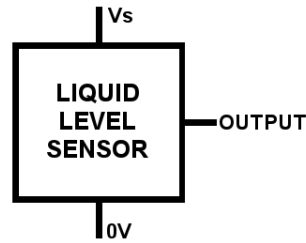
LLx7x0 Series



HOUSING SPECIFICATIONS

	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		

ELECTRICAL INTERFACE



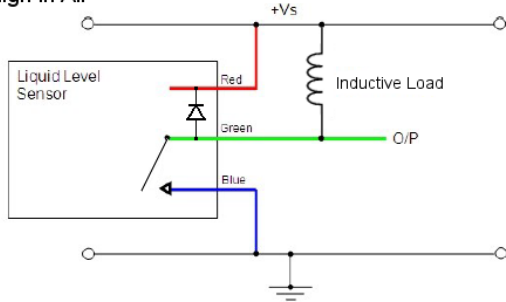
Wire	Designation
Red	Vs
Green	Output
Blue	0V



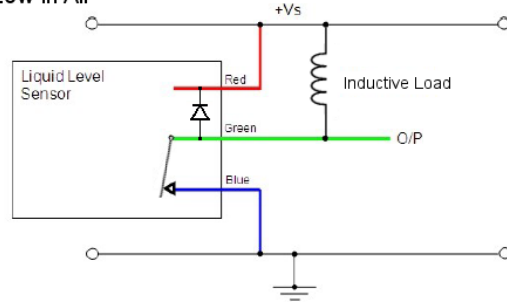
- 1) Hex nut and O-ring sold separately; email: technical@sstsensing.com for details.
- 2) NPT version can be sealed with PTFE tape.
- 3) When correctly sealed.

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](#).

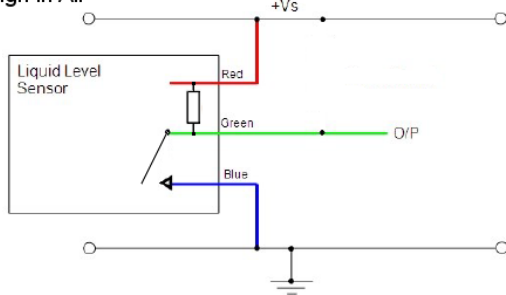
**N-Type with Flyback Protection Diode
High in Air**



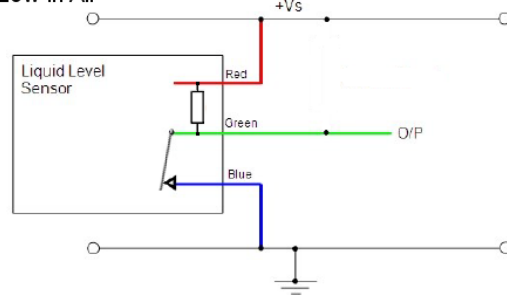
**N-Type with Flyback Protection Diode
Low in Air**



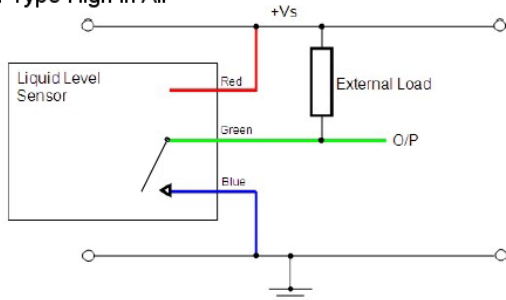
**N-Type with Internal 10kΩ Pull-Up Resistor
High in Air**



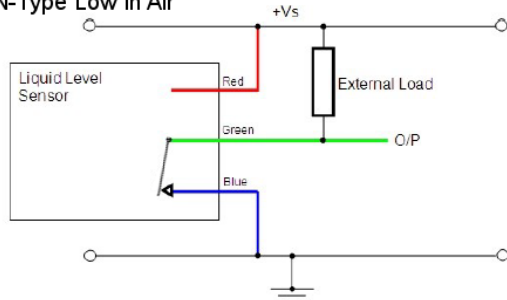
**N-Type with Internal 10kΩ Pull-Up Resistor
Low in Air**



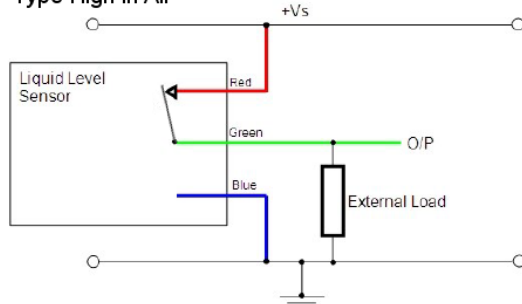
N-Type High in Air



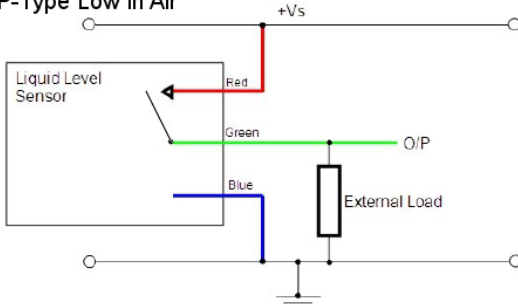
N-Type Low in Air



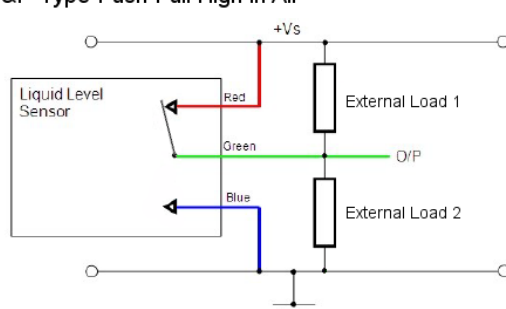
P-Type High in Air



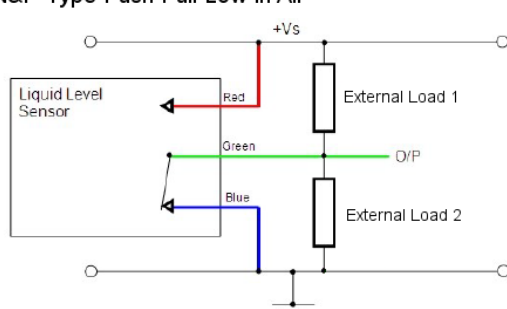
P-Type Low in Air



N&P-Type Push Pull High in Air



N&P-Type Push Pull Low in Air



CAUTION: Take care when connecting loads.

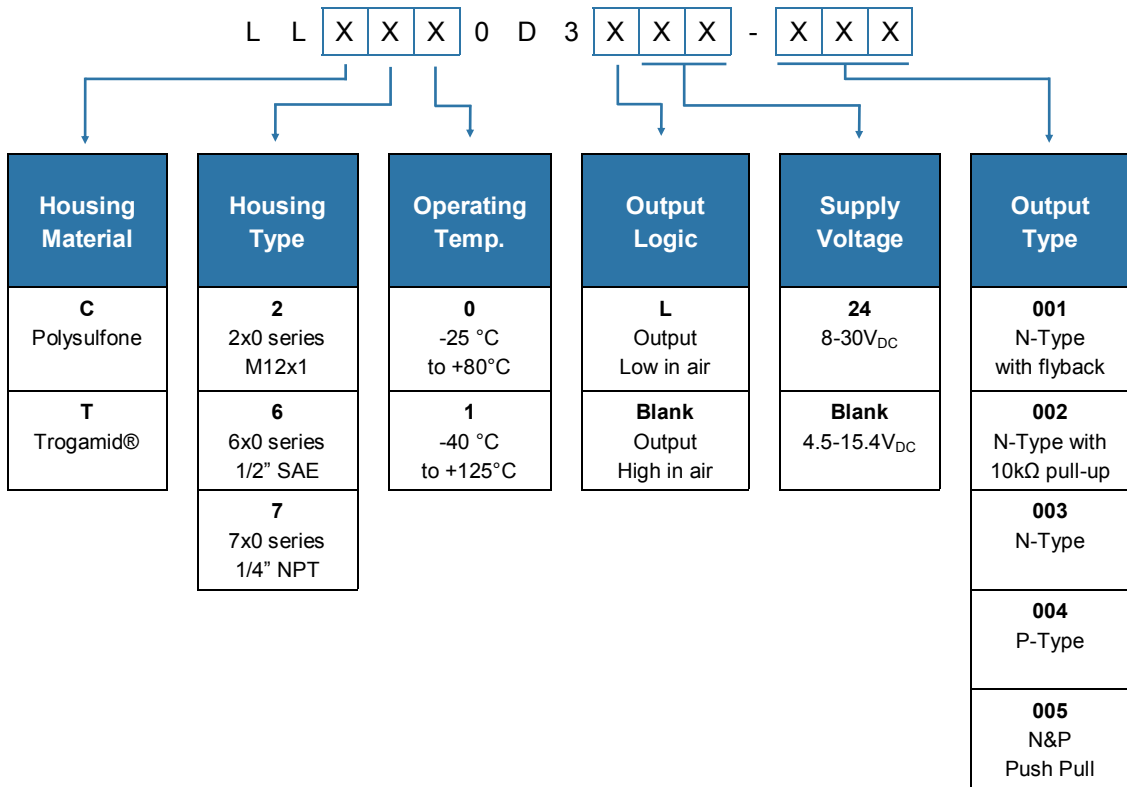
The minimum load impedance should not exceed $V_s/\text{max output current}$.

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



ORDER INFORMATION

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.



CAUTION

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.

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.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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