imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

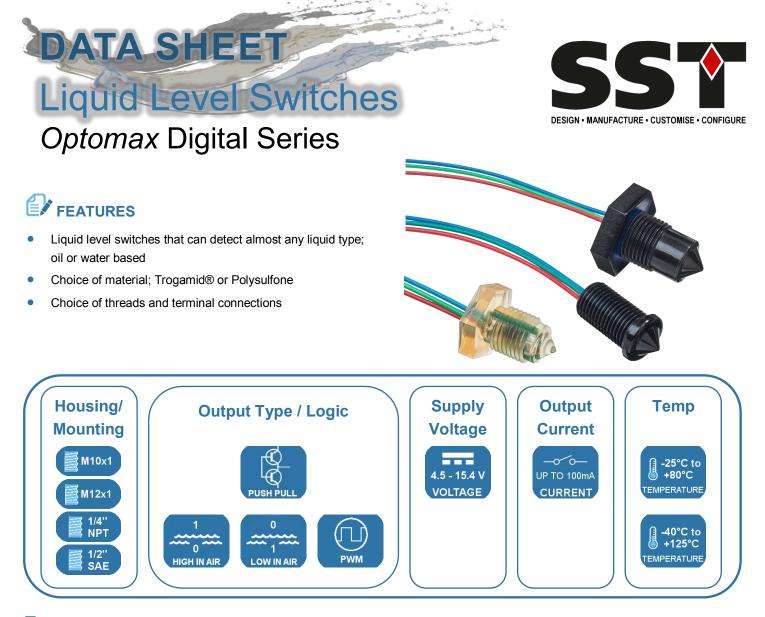
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





BENEFITS

- Low power
- Low cost
- Compact design

TECHNICAL SPECIFICATIONS

Supply voltage (Vs) Supply current (Is) Output sink and source current (lout) Operating temperatures

Storage temperatures

Housing material Sensor termination $4.5V_{DC}$ to $15.4V_{DC}$ 2.5mA max. (Vs = $15.4V_{DC}$)

100mA

Standard: -25°C to +80°C Extended: -40°C to +125°C Standard: -30°C to +85°C Extended: -40°C to +125°C Trogamid® or Polysulfone¹ 24AWG, 250mm PTFE wires, 8mm tinned

OUTPUT VALUES

Output Voltage ² (Vout):	
Output High	١
Output Low	١

lout = 100mA Vout = Vs - 1V max Vout = 0V + 0.5V max

PWM

Duty cycle in air Duty cycle in liquid Frequency

25% ± 10% 75% ± 10% 2kHz ± 10%

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"





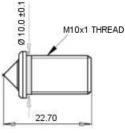
Before use check that the fluid in which you wish to use these devices is compatible either with Trogamid® or 1) Polysulfone. 2)

Voltages applicable to output value stated.

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

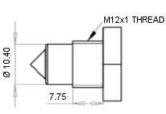
LLx5x0 Series





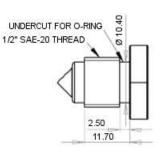
LLx2x0 Series





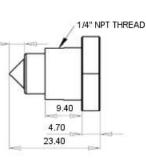
LLx6x0 Series





LLx7x0 Series





vEv0 Parias



1) Hex nut and O-ring sold separately; email: <u>technical@sstsensing.com</u> for details.

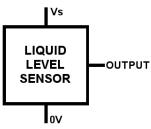
2) NPT version can be sealed with PTFE tape.

3) When correctly sealed.

Contractions Specifications

	Housing Series			
	5x0	2x0	6x0	7x0
Thread	M10x1	M12x1x8g with hex nut ¹	1/2" SAE with O-ring ¹	1/4" NPT ²
Pressure ³	20 bar	7 bar maximum		
Tightening Torque	1.5 Nm / 13.26 in-lbs maximum			



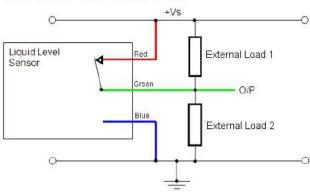


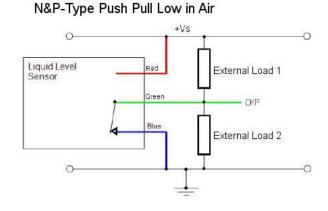
Wire	Designation
Red	Vs
Green	Output
Blue	0V

CIRCUIT DIAGRAMS

In order to suit any application, these sensors have been designed with various output circuit configurations.

N&P-Type Push Pull High in Air

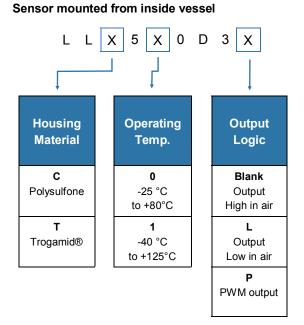




CAUTION: Take care when connecting loads. The minimum load impedance should not exceed Vs/max output current. Note: Shorting the output to Vs or 0V will result in irreparable damage to the sensor.

ORDER INFORMATION

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



Sensor mounted from outside vessel S Х Х Х 0 D 3 Х Н L L Housing Housing Operating Output Material Type Temp. Logic С 2 0 Blank Polysulfone 2x0 SH series -25 °C Output M12x1 to +80°C High in air т L 6 1 Trogamid® 6x0 SH series -40 °C Output 1/2" SAE to +125°C Low in air Ρ 7 7x0 SH series PWM output 1/4" NPT

Notes:

- 5x0 series sensors are mounted internally .
- 2x0, 6x0 & 7x0 series sensors are mounted externally
- SH suffix applicable to 2x0, 6x0 & 7x0 series sensors only; omit from 5x0 series sensor part number

Please contact SST Sensing for details; email: technical@sstsensing.com

Do not exceed maximum ratings and ensure sensor(s) are operated in As customer applications are outside of SST Sensing Ltd.'s control, the accordance with their requirements. information provided is given without legal responsibility. Customers should test under their own conditions to ensure that the equipment is Carefully follow all wiring instructions. Incorrect wiring can cause suitable for their intended application. Before use, check that the fluid in permanent damage to the device. which you wish to use these devices is compatible with Polysulfone or Trogamid®. SST Sensing Ltd recommend using alcohol based cleaning agents. Do NOT use chlorinated solvents such as tricholerthane as these are For technical assistance or advice, please email: likely to attack the sensor material. technical@sstsensing.com Failure to comply with these instructions may result in product damage.

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.



DS-0032 REV 12

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