

The microcontroller based sensor is solid state, incorporating an infra-red LED and phototransistor which are optically coupled by the tip when the sensor is in air. When the sensing tip is immersed in liquid, the infra-red light escapes making the output change state.





X TECHNICAL SPECIFICATIONS

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

Operating temperatures Storage temperatures Housing material Sensor termination

Mounting thread² Operating pressure Tightening torque 4.5V_{DC} to 15.4V_{DC} 2.5mA max. (Vs = 15.4V_{DC}) 100mA

-25°C to +80°C -30°C to +85°C

Polysulfone¹ 24AWG, 250mm PTFE wires, 8mm tinned

M12x1x8g with hex nut³ 7bar / 101psi maximum⁴ 1.5Nm / 13.26 in-lb maximum

OUTPUT VALUES

Output Voltage⁵ (Vout): Output High Output Low Iout = 100mA Vout = Vs - 1V max Vout = 0V + 0.5V max

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 with Polysulfone.

Sensor is mounted externally.

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

4) When correctly sealed.

1)

2)

5) Voltages applicable to output value stated.





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





Vs			
LIQUID LEVEL SENSOR	-ОИТРИТ	Wire	Designation
		Red	Vs
		Green	Output
		Blue	0V
0V			



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.

Specify the part number listed below when ordering.



CAUTION Do not exceed maximum ratings and ensure sensor(s) are operated in accordance with their requirements.	As customer applications are outside of SST Sensing Ltd.'s control, the information provided is given without legal responsibility.	
Carefully follow all wiring instructions. Incorrect wiring can cause permanent damage to the device.	Customers should test under their own conditions to ensure that the equipment is suitable for their intended application. Before use, check	
SST Sensing Ltd recommend using alcohol based cleaning agents. Do NOT use chlorinated solvents such as tricholerthane as these are likely to attack the sensor material.	that the fluid in which you wish to use these devices is compatible with Polysulfone. For technical assistance or advice, please email: 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-0141 REV 1