



#### Type 1 LLC101101, Type 2 LLC102101, Type 3 LLC103101 and Type 5 LLC105100



Liquid level switches that can detect almost any liquid type; oil or water based

Choice of mounting; internal or external

Choice of threads



#### Housing/ Mounting





# Output Type/Logic





# Supply Voltage



#### Output Current



#### **Temp**



### **BENEFITS**

Low power

Low cost

Compact design

## **✓** OUTPUT VALUES

Output Voltage<sup>b</sup> (Vout):

Output High Output Low lout = 100mA

Vout = Vs - 1.5V maxVout = 0V + 0.5V max

## **X** TECHNICAL SPECIFICATIONS

Supply voltage (Vs)  $4.5V_{DC}$  to  $15.4V_{DC}$ 

Supply current (Is) 2.5mA max. (Vs =  $15.4V_{DC}$ )

Output sink and source

current (lout) 100mA

Operating temperatures -40°C to +125°C

Storage temperatures -40°C to +125°C

Housing material<sup>a</sup> Polysulfone

Sensor termination 24AWG, 250mm PTFE wires. 8mm tinned



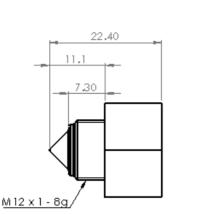
- Before use check that the fluid in which you wish to use these devices is compatible with Polysulfone.
- b) Voltages applicable to output value stated.

## OUTLINE DRAWING

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



### HOUSING SPECIFICATIONS

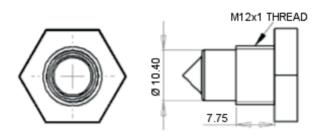


	Housing Series - External Mounting	
	Type 1	Type 2
Thread	M12x1x8g	M12x1x8g with hex nut <sup>c</sup>
Pressure <sup>d</sup>	7 bar / 101 psi maximum	
Tightening Torque	1.5 Nm / 13.26 in-lbs maximum	

Type 2

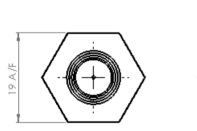
Type 1

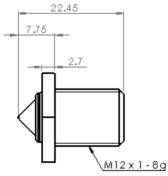
19 A/F



	Housing Series - Internal Mounting	
	Type 3	Type 5
Thread	M12x1x8g with hex nut <sup>c</sup>	M10x1
Pressure <sup>d</sup>	7 bar / 101 psi maximum	
Tightening Torque	1.5 Nm / 13.26 in-lbs maximum	Not Applicable

Type 3



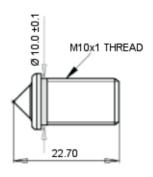


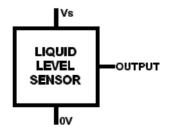
**NOTE:** The dimensions of the Type 5 part make it a "push in" part. The sensor can also be secured using an M10 nut.

## ELECTRICAL INTERFACE

Type 5







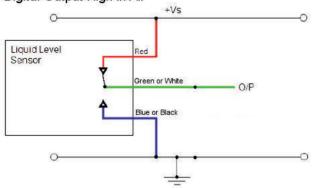
Wire	Designation
Red	Vs
Green	Output
Blue	0V



- c) Hex nut and washer supplied with Type 1, Type 2 and Type 3.
- d) When correctly sealed.



#### Digital Output 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.



Specify the part number you require.

Sensor mounted from outside vessel

Type 1

L C 1 0

Type 2

L C

Sensor mounted from inside vessel

Type 3

L L C 1 0 3

Type 5

L L C 1 0 5



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.

## **1** 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.

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.

