DATA SHEET

Liquid Level Switches

High Performance Series

FEATURES

- Liquid level switches that can detect almost any liquid type; oil or water based
- Large load output; high switching currents
- Choice of threads and terminal connections



Housing/ Mounting BSP 1/2" 1/2"



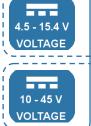








Supply Voltage



Current

Output



Temp



BENEFITS

Supply current (Is)

current (lout)

Output sink and source

Storage temperatures

- Robust stainless steel housing
- Suitable for use within aggressive environments
- Larger mounting threads; standard or custom

OUTPUT VALUES

Output Voltage² (Vout): lout = 100mA

 $Vs = 4.5 - 15.4 V_{DC}$

Output High Vout = Vs - 1.5V max **Output Low** Vout = $0V + 0.5V \max$

Output Voltage² (Vout): lout = 800mA

 $Vs = 10-45V_{DC}$

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

TECHNICAL SPECIFICATIONS

or

or

Supply voltage (Vs) $4.5V_{DC}$ to $15.4V_{DC}$ (±5%)

 $10V_{DC}$ to $45V_{DC}$ (±5%)

 $15\text{mA} \text{ max.} (Vs = 12V_{DC})$

 $35mA max. (Vs = 45V_{DC})$

100mA max. (15.4V_{DC})

800mA max. ($45V_{DC}$)

Standard: -25°C to +80°C Operating temperatures

Extended: -40°C to +125°C

Standard: -30°C to +85°C Extended: -40°C to +125°C

Housing material Stainless Steel with

Polysulfone tip¹

Sensor termination Various; refer to page 2



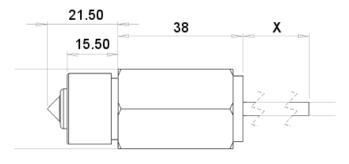
- Before use check that the fluid in which you wish to use these devices is compatible with Stainless Steel and Polysulfone.
- Voltages applicable to output value stated.

OUTLINE DRAWING

HOUSING SPECIFICATIONS

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

Cable

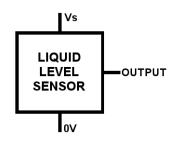


	Housing				
Thread	1/2" BSP	3/8" BSP	1/2" NPT	3/4"-16 UNJF	
Pressure ¹	25 bar / 363 psi maximum				
Sensor Termination	Cable: 0.5m, 1m or 3m lengths (IP67)				
	M12x1 Brad Harrison micro (IP67)				
	Flying leads: 24AWG, 0.2m PTFE wires, 8mm tinned (IP65)				

Brad Harrison micro 19.40 9.40 M12

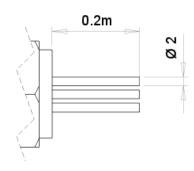
ELECTRICAL INTERFACE

Cable



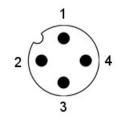
Wire	Designation	
Red	Vs	
White	Output	
Black	0V	

Flying Leads



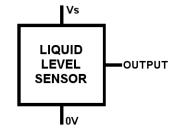
Note: "X" can equal 0.5, 1.0 or 3.0 metres.

Brad Harrison micro



Pin	Designation	
1	Vs	
2	Not connected	
3	0V	
4	Output	

Flying Leads



Wire	Designation	
Red	Vs	
Green	Output	
Blue	0V	

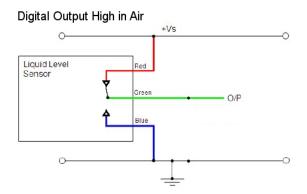


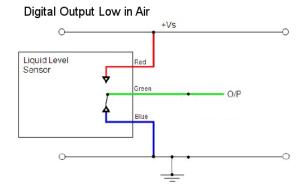
1) Using sealing washer/O-ring.



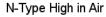
In order to suit any application, these sensors have been designed with various output circuit configurations.

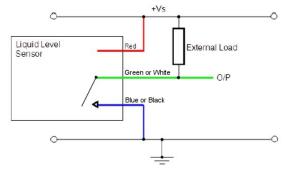
5V—12V_{DC}

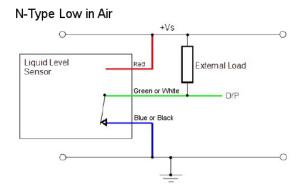




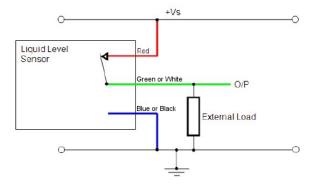
10V—45V_{DC}



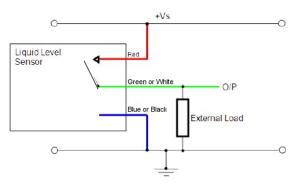




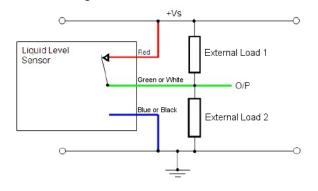
P-Type High in Air



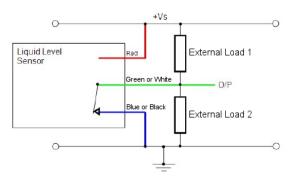
P-Type Low in Air



Push Pull High in Air



Push Pull Low in Air





CAUTION: Take care when connecting loads.

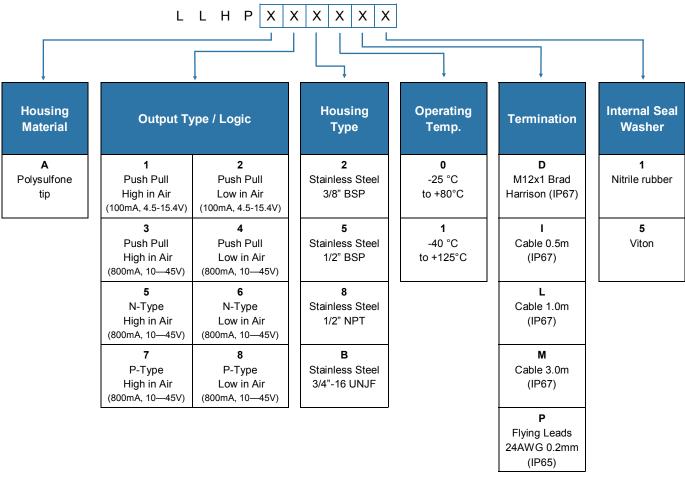
The minimum load impedance should not exceed Vs/max output current.

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





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.



Note: Not all combinations are configurable and minimum order quantities (MOQs) may apply in some cases.



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 Stainless Steel and 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.

RoHS