DATA SHEET Liquid Level Switches High Performance Series



DESIGN • MANUFACTURE • CUSTOMISE • CONFIGURE

- 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





🐻 BENEFITS

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

X TECHNICAL SPECIFICATIONS

Supply voltage (Vs)		4.5V _{DC} to 15.4V _{DC} (±5%)
	or	10V _{DC} to 45V _{DC} (±5%)
Supply current (Is)		15mA max. (Vs = $12V_{DC}$)
	or	$35mA max. (Vs = 45V_{DC})$
Output sink and source		100mA max. (15.4V _{DC})
current (lout)	or	800mA max. (45V _{DC})
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		Stainless Steel with
		Polysulfone tip ¹
Sensor termination		Various; refer to page 2

1)

2)

VOUTPUT VALUES

Output Voltage ² (Vout): Vs = 4.5—15.4V _{DC}	lout = 100mA
Output High Output Low	Vout = Vs - 1.5V max Vout = 0V + 0.5V max
Output Voltage ² (Vout):	lout = 800mA

Vs = 10—45V_{DC} Output High

Output High

Vout = Vs - 1.8V max Vout = 0V + 0.7V 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 Stainless Steel and Polysulfone. Voltages applicable to output value stated.

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

Cable



Brad Harrison micro



Flying Leads



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

Contractions Specifications

	Housing			
Thread	1/2" BSP	3/8" BSP	1/2" NPT	3/4"-16 UNJF
Pressure ¹	25 bar 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)			



Cable



Wire	Designation
Red	Vs
White	Output
Black	0V

Brad Harrison micro



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

Flying Leads



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

N-Type High in Air



P-Type High in Air



Push Pull High in Air



N-Type Low in Air

P-Type Low 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. Please contact SST Sensing for details; email: <u>technical@sstsensing.com</u>

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

