DATA SHEET Liquid Level Switches



LLHT Series



- Liquid level switches that can detect almost any liquid type;
 oil or water based
- Suitable for harsh environments; robust Stainless Steel housing and crystal glass tip
- Choice of terminal connections



Housing/ Mounting









Supply Voltage



Output Current



Temp





BENEFITS



Extreme temperatures

LED output indication

✓ OUTPUT VALUES

Output Voltage (Vout): lout = 200mA

Vs = 12-30V_{DC}

Output High Vout = Vs - 1.5V maxOutput Low Vout = 0V + 0.5V max

X TECHNICAL SPECIFICATIONS

Supply voltage (Vs) 12V_{DC} to 30V_{DC} Supply current (Is) 25mA max.

Output sink and source

current (lout) 200mA max.

Operating temperatures LLHT187: -25°C to +100°C

LLHT287: -25°C to +140°C

Storage temperatures -25°C to +80°C
Housing material Stainless Steel with

Simax crystal glass tip^a

Sensor termination M12 Brad Harrison connector

or PUR 3x0.25mm², 2m cable

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"

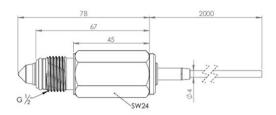




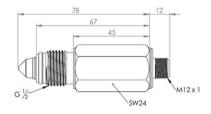
OUTLINE DRAWING

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

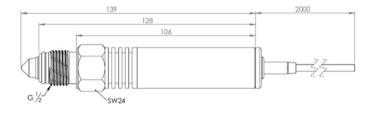
LLHT187-3XX



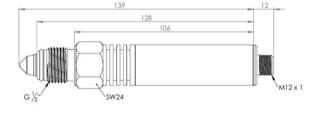
LLHT187-4XX



LLHT287-3XX



LLHT287-4XX



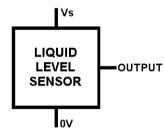
HOUSING SPECIFICATIONS

Installation drawings and 3D (.step) files available on the product webpage.

	Housing		
	LLHT187	LLHT287	
Thread	G1/2" (1/2" BSPP)		
Pressure ^b	80 bar / 1160 psi maximum		
Sensor Termination	Cable: PUR 3 x 0.25mm ² , 2m long (IP68)		
	M12x1 Brad Harrison micro (IP67)		

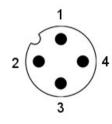
ELECTRICAL INTERFACE

Cable



Wire	Designation	
Brown	Vs	
Black	Output	
Blue	0V	

Brad Harrison micro

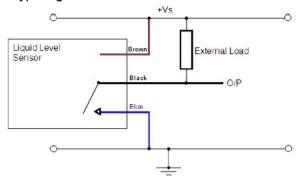


Output Type / Logic						
Pin	11	12	13	14		
1	Vs	Vs	Vs	Vs		
2	-	Low in Air N-Type Output	-	High in Air P-Type Output		
3	0V	0V	0V	0V		
4	High in Air N-Type Output	-	Low in Air P-Type Output	-		

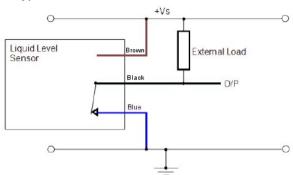
CIRCUIT DIAGRAMS

In order to suit any application, these sensors have been designed with various output circuit configurations. They are identified by the 2-digit code at the end of the part number as shown in <u>Order Information</u>.

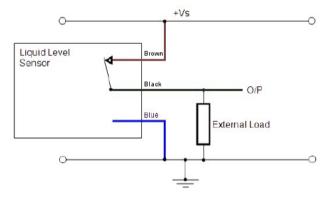
N-Type High in Air



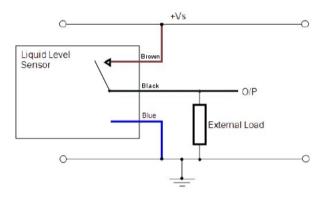
N-Type Low in Air



P-Type High in Air



P-Type Low in Air



•

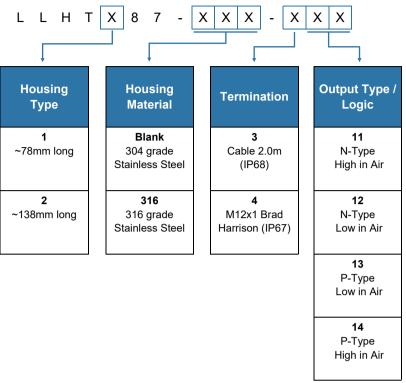
CAUTION: Take care when connecting loads.

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 require.





Thread	Accessory	Material	Order Code
1/2" BSPP	Weld Nut	304 Stainless Steel	LLHT12BSP

CAUTION

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.

f 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 Simax crystal glass.

For technical assistance or advice, please email: 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.

