DATA SHEET Liquid Level Switches



POS 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**



Output Type / Logic





Supply Voltage



Output Current



Temp





BENEFITS



Extreme temperatures

LED output indication

OUTPUT VALUES

Output Voltage^b (Vout): lout = 200mA

 $Vs = 12 - 30V_{DC}$

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



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

Output sink and source

200mA max. current (lout)

POS187: -25°C to +100°C Operating temperatures

POS287: -25°C to +140°C

Storage temperatures -25°C to +80°C Housing material Stainless Steel with Simax crystal glass tip^a

M12 Brad Harrison connector

PUR 3x0.25mm², 2m cable or

Other sensor options available on request



Sensor termination

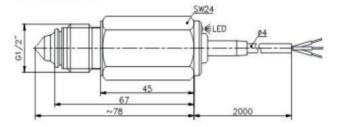
- Before use check that the fluid in which you wish to use these devices is compatible with Simax crystal glass.
- Voltages applicable to output value stated.

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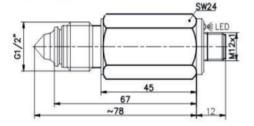
1 OUTLINE DRAWING

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

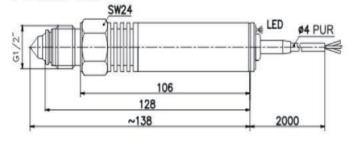
POS187-3XX



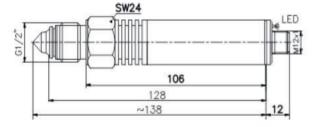
POS187-4XX



POS287-3XX



POS287-4XX

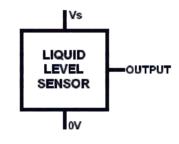


HOUSING SPECIFICATIONS

	Housing	
	POS187	POS287
Thread	G1/2" (1/2" BSPP)	
Pressure ^c	80 bar / 1160 psi maximum	
Sensor Termination	Cable: PUR 3 x 0.25mm², 2m long (IP68)	
	M12x1 Brad Ha	rrison micro (IP67)

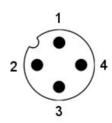
ELECTRICAL INTERFACE

Cable



Wire	Designation
Brown	Vs
Black	Output
Blue	0V

Brad Harrison micro



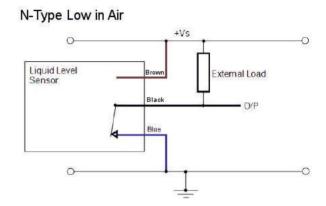
Pin	Designation
1	Vs
2	Output: N-Type Low in Air P-Type High in Air
3	0V
4	Output: N-Type High in Air P-Type Low in Air

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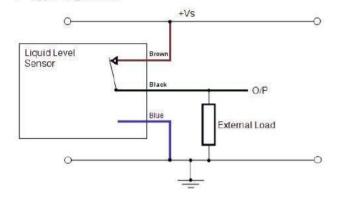
CIRCUIT DIAGRAMS

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 Order Information.

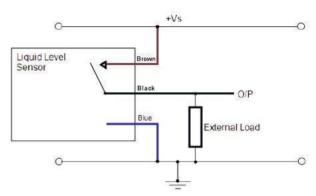
N-Type High in Air Liquid Level External Load Sensor Black O/P



P-Type High in Air



P-Type Low in Air





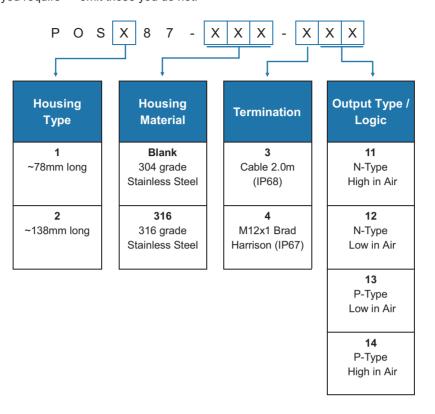
CAUTION: Take care when connecting loads.

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.





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 Simax crystal glass.

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-0035 REV 6

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