DATA SHEET
Liquid Level Switches
POS Series

SST
DESIGN • MANUFACTURE • CUSTOMISE • CONFIGURE

FEATURES

- 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
1/2" BSPP	N-TYPE	P-TYPE	12 - 30 V VOLTAGE	UP TO 200mA CURRENT	-25°C to +100°C TEMPERATURE
					-25°C to +140°C TEMPERATURE

BENEFITS

- Suitable for use within aggressive environments

- Extreme temperatures

- LED output indication

TECHNICAL SPECIFICATIONS

Supply voltage (Vs)	$12V_{DC}$ to $30V_{DC}$
Supply current (Is)	25mA max.
Output sink and source current (Iout)	200mA max.
Operating temperatures	POS187: -25°C to +100°C
	POS287: -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 $3 \times 0.25mm^2$, 2m cable

OUTPUT VALUES

Output Voltage[b] (Vout): **Iout = 200mA**
Vs = 12—30V$_{DC}$

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

Other sensor options available on request, email: technical@sstsensing.com

**Need help? Ask the expert
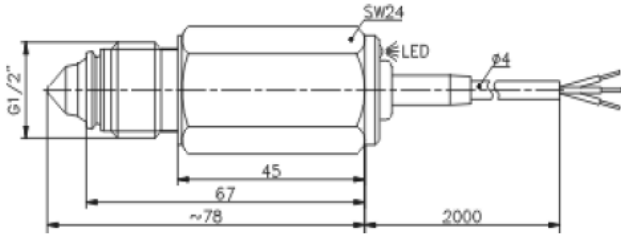Tel: + 44 (0)1236 459 020
and ask for "Technical"**

NOTES

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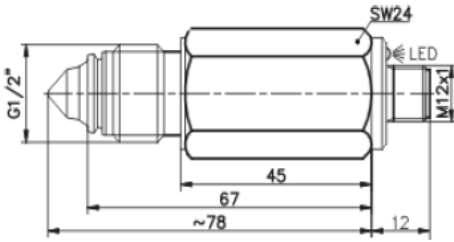b) Voltages applicable to output value stated.

⬚↕ OUTLINE DRAWING
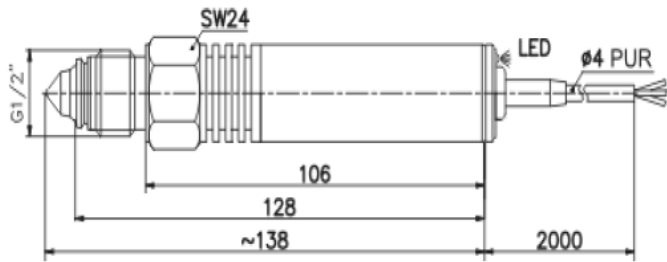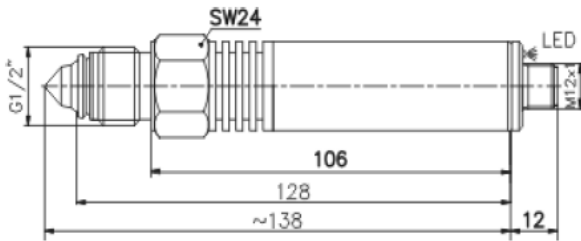
All dimensions shown in mm. Tolerances = ±1mm.

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 0.25mm^2, 2m long (IP68)	
	M12x1 Brad Harrison micro (IP67)	

⚡ ELECTRICAL INTERFACE

Cable
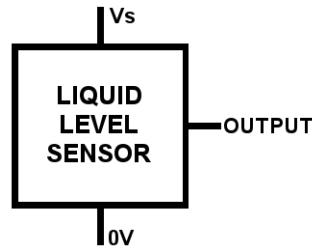
Wire	Designation
Brown	Vs
Black	Output
Blue	0V

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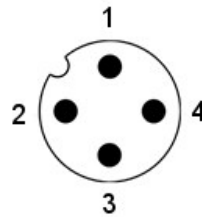
Pin	Designation
1	Vs
2	Output: N-Type Low in Air P-Type High in Air
3	0V
4	Output: N-Type High in Air P-Type Low in Air

✔ *NOTES*　　c)　　When correctly sealed.

〰️ CIRCUIT DIAGRAMS
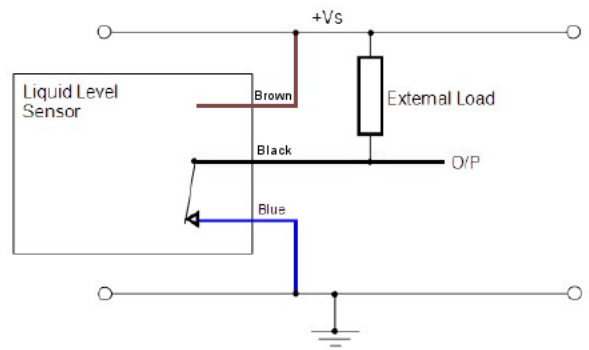
In order to suit any application, these sensors have been designed with various output circuit configurations. They are identified by the 2-digit code at the end of the part number as shown in Order Information.
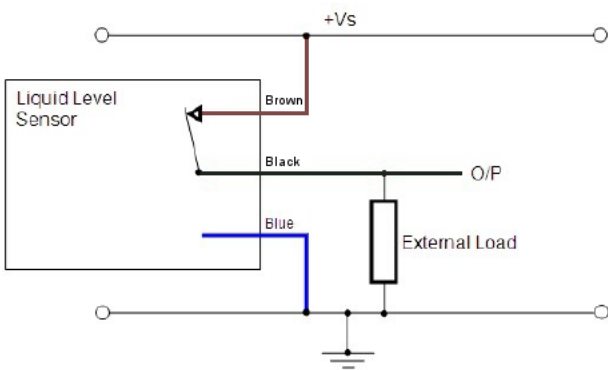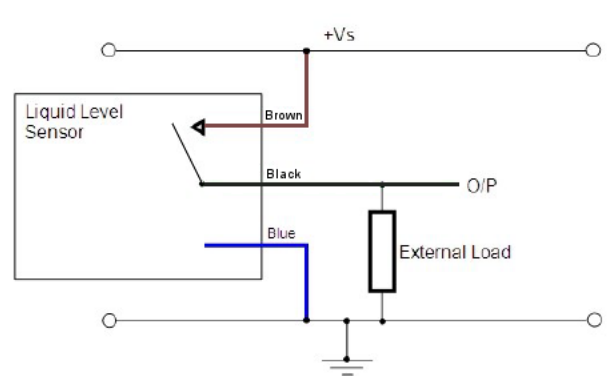
N-Type High in Air
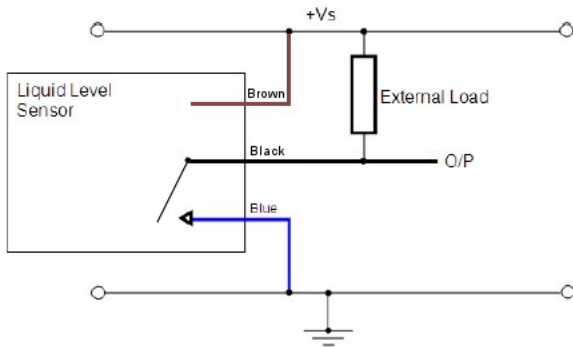
N-Type Low in Air

P-Type High in Air

P-Type Low in Air

🛈 CAUTION: Take care when connecting loads.
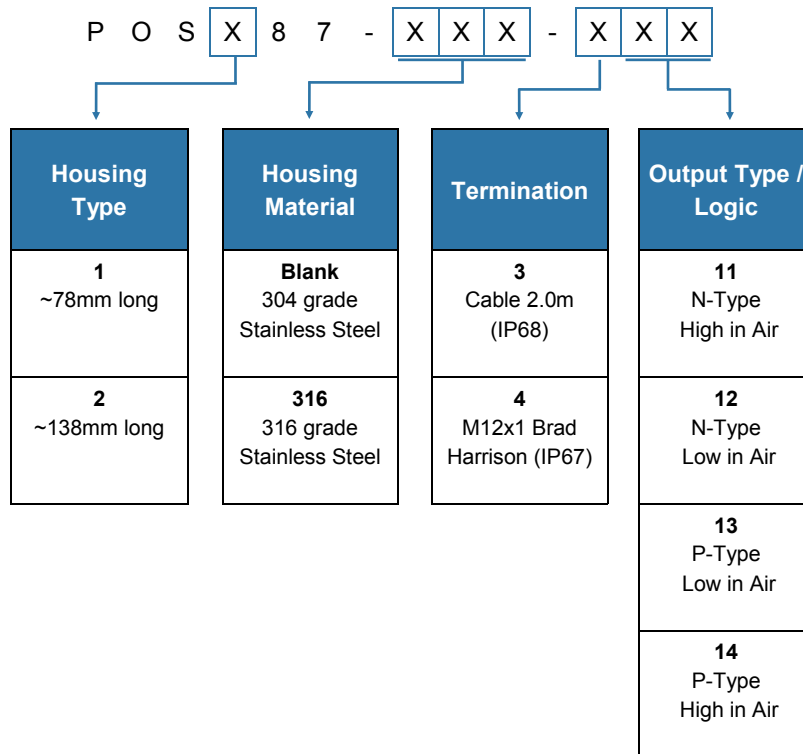
The minimum load impedance should not exceed Vs/max output current.

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

ORDER INFORMATION

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.

P O S X 8 7 - X X X - X X X

Housing Type	Housing Material	Termination	Output Type / Logic
1 ~78mm long	**Blank** 304 grade Stainless Steel	**3** Cable 2.0m (IP68)	**11** N-Type High in Air
2 ~138mm long	**316** 316 grade Stainless Steel	**4** M12x1 Brad Harrison (IP67)	**12** N-Type Low in Air
			13 P-Type Low in Air
			14 P-Type High in Air

⚠️ **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.

ℹ️ **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.

DS-0035 REV 6   © 2017 SST SENSING LTD.

5 HAGMILL CRESCENT, SHAWHEAD INDUSTRIAL ESTATE, COATBRIDGE, UK ML5 4NS
www.sstsensing.com | e: sales@sstsensing.com | t: +44 (0)1236 459020 | f: +44 (0)1236 459026

RoHS ✓