

DATA SHEET

Liquid Level Switches

POS Series

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



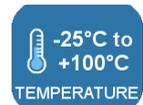
Supply Voltage



Output Current



Temp



BENEFITS

- Suitable for use within aggressive environments
- Extreme temperatures
- LED output indication

OUTPUT VALUES

Output Voltage² (V_{out}): I_{out} = 200mA

V_s = 12—28V_{DC}

Output High

V_{out} = V_s - 1.5V max

Output Low

V_{out} = 0V + 0.5V max

TECHNICAL SPECIFICATIONS

| | |
|--|---|
| Supply voltage (V _s) | 12V _{DC} to 28V _{DC} |
| Supply current (I _s) | 25mA max. |
| Output sink and source current (I _{out}) | 200mA max. |
| Operating temperatures | POS187: -25°C to +100°C POS287: -40°C to +140°C |
| Storage temperatures | POS187: -25°C to +100°C POS287: -40°C to +140°C |
| Housing material | Stainless Steel with Simax crystal glass tip ¹ |
| Sensor termination | M12 Brad Harrison connector or PUR 3x0.25mm ² , 2m cable |



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

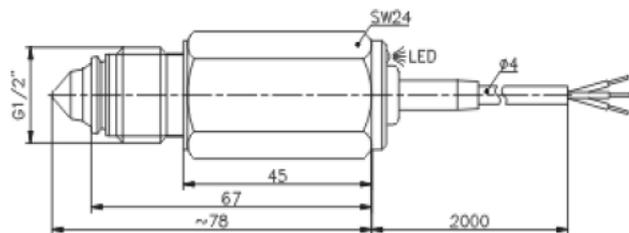
OUTLINE DRAWING

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

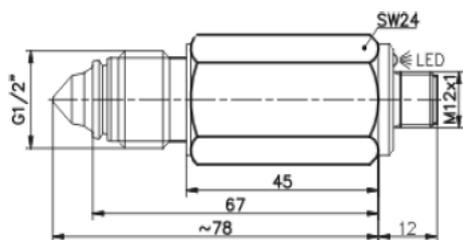
HOUSING SPECIFICATIONS

| | | Housing | |
|-----------------------|--|---|--------|
| | | POS187 | POS287 |
| Thread | | G1/2" (1/2" BSPP) | |
| Pressure ¹ | | 80 bar / 1160 psi maximum | |
| Sensor Termination | | Cable: PUR 3 x 0.25mm ² , 2m long (IP68) | |
| | | M12x1 Brad Harrison micro (IP67) | |

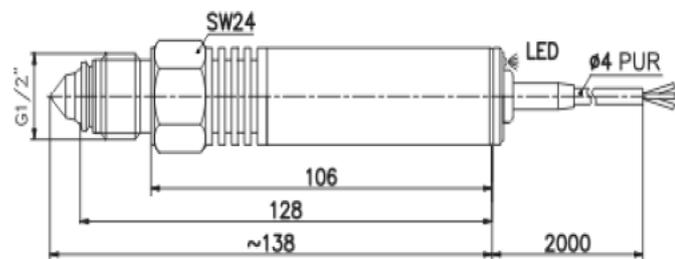
POS187-3XX



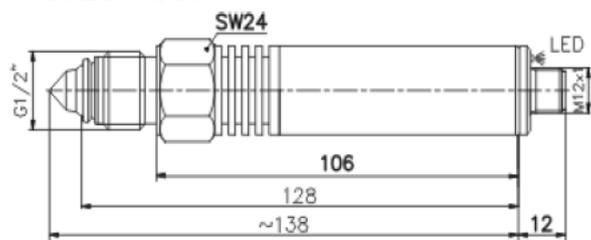
POS187-4XX



POS287-3XX

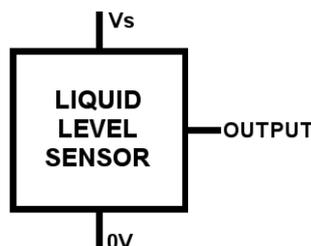


POS287-4XX



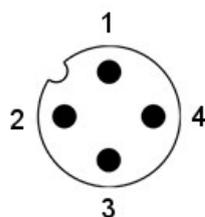
ELECTRICAL INTERFACE

Cable



| Wire | Designation |
|-------|-------------|
| Brown | Vs |
| Black | Output |
| Blue | 0V |

Brad Harrison micro

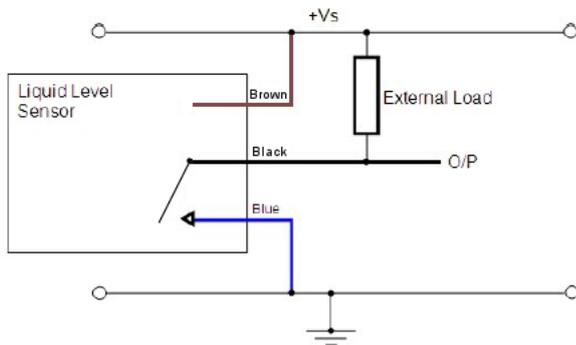
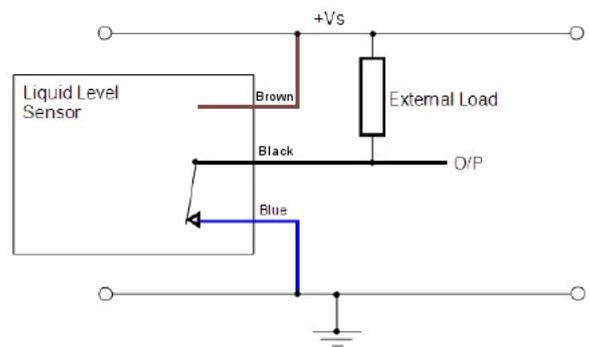
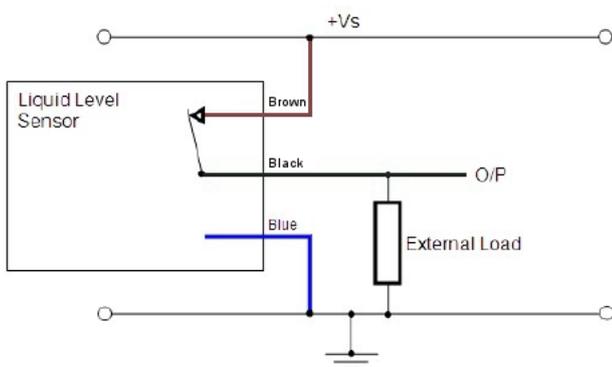
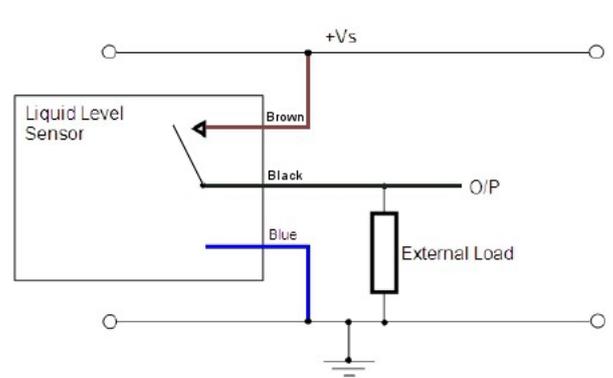


| Pin | Designation |
|-----|--|
| 1 | Vs |
| 2 | Output: N-Type Low in Air P-Type High in Air |
| 3 | 0V |
| 4 | Output: N-Type High in Air P-Type Low in Air |



1) When correctly sealed.

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


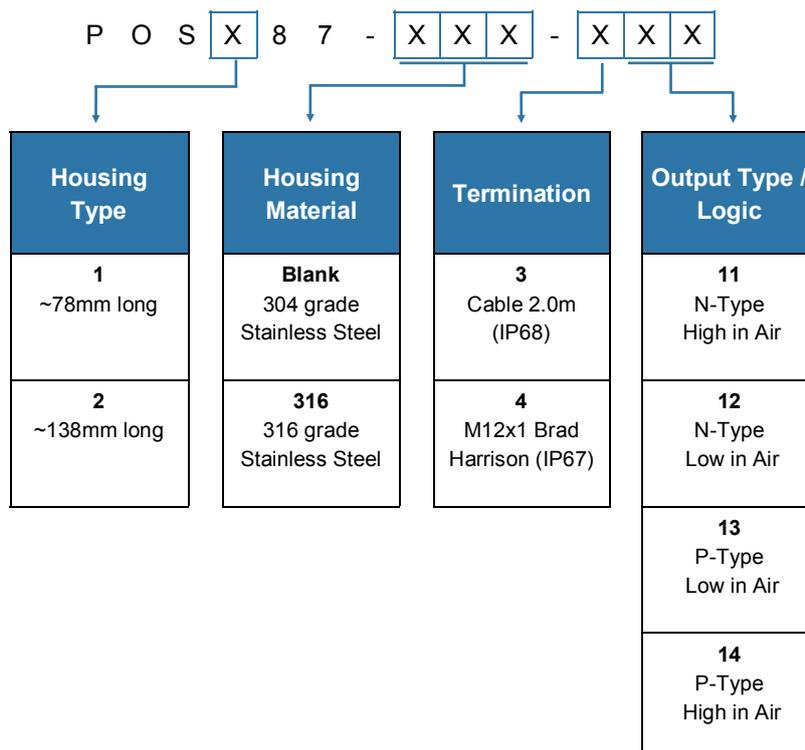
CAUTION: Take care when connecting loads.

The minimum load impedance should not exceed $V_s/\text{max output current}$.

Note: Shorting the output to V_s 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> CAUTION</p> <p>Do not exceed maximum ratings and ensure sensor(s) are operated in accordance with their requirements.</p> <p>Carefully follow all wiring instructions. Incorrect wiring can cause permanent damage to the device.</p> <p>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.</p> <p>Failure to comply with these instructions may result in product damage.</p> | <p> INFORMATION</p> <p>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.</p> |
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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.

