



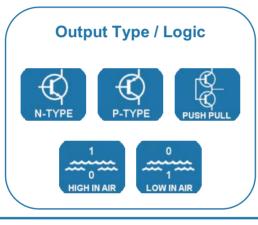
High Performance Series

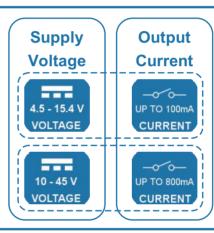


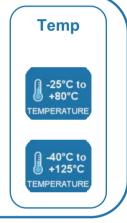
- Liquid level switches that can detect almost any liquid type;
 oil or water based
- Large load output; high switching currents
- Choice of threads and terminal connections











BENEFITS

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

✓ OUTPUT VALUES

Output Voltage² (Vout): lout = 100mA

 $Vs = 4.5 - 15.4 V_{DC}$

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

Output Voltage² (Vout): lout = 800mA

Other sensor options available on request

 $Vs = 10-45V_{DC}$

Output High Vout = Vs - 1.8V maxOutput Low Vout = 0V + 0.7V max

X TECHNICAL SPECIFICATIONS

 $\begin{array}{ccc} \text{Supply voltage (Vs)} & & 4.5\text{V}_{DC} \text{ to } 15.4\text{V}_{DC} \text{ ($\pm5\%$)} \\ & \text{or} & & 10\text{V}_{DC} \text{ to } 45\text{V}_{DC} \text{ ($\pm5\%$)} \\ \text{Supply current (Is)} & & 15\text{mA max. (Vs} = 12\text{V}_{DC}) \end{array}$

 $\begin{array}{ccc} & \text{or} & 35\text{mA max. (Vs} = 45\text{V}_{DC}) \\ \text{Output sink and source} & 100\text{mA max. (15.4V}_{DC}) \\ \text{current (lout)} & \text{or} & 800\text{mA max. (45V}_{DC}) \\ \end{array}$

Operating temperatures Standard: -25°C to +80°C

Extended: -40°C to +125°C Standard: -30°C to +85°C

Extended: -40°C to +125°C

Housing material Stainless Steel with

Polysulfone tip¹

Sensor termination Various; refer to page 2



Storage temperatures

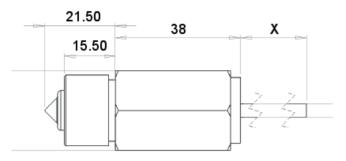
- 1) Before use check that the fluid in which you wish to use these devices is compatible with Stainless Steel and Polysulfone.
- Voltages applicable to output value stated.

Rossmann Electronic GmbH Diessen, Germany info@rossmannweb.de

OUTLINE DRAWING

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

Cable

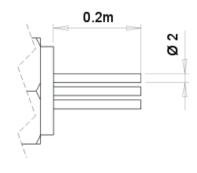


HOUSING SPECIFICATIONS

| | Housing | | | | |
|-----------------------|--|--------------|----------------------|-----------------|--|
| Thread | 1/2" BSP | 3/8" BSP | 1/2" NPT | 3/4"-16 UNJF | |
| Pressure ¹ | 25 bar / 363 psi maximum | | | | |
| | Cable | : 0.5m, 1m o | or 3m lengths (IP67) | | |
| Sensor Termination | M12x1 Brad Harrison micro (IP67) | | | | |
| | Flying leads: 24AWG, 0.2m PTFE wires, 8mm tinned (IP65) | | | | |

Brad Harrison micro 19.40 9.40 6.40 M12

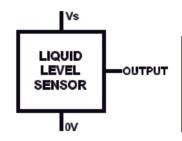
Flying Leads



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

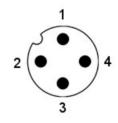
ELECTRICAL INTERFACE

Cable



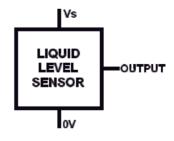
| Wire | Designation |
|-------|-------------|
| Red | Vs |
| White | Output |
| Black | 0V |

Brad Harrison micro



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

Flying Leads



| Wire | Designation | |
|-------|-------------|--|
| Red | Vs | |
| Green | Output | |
| Blue | 0V | |

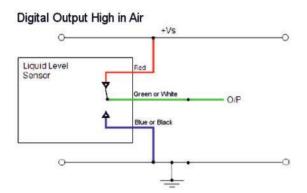


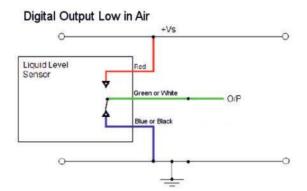
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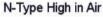
In order to suit any application, these sensors have been designed with various output circuit configurations.

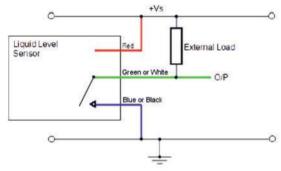
4.5V—15.4V_{DC}

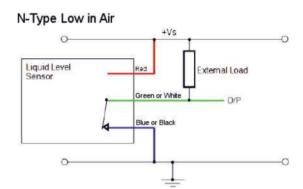




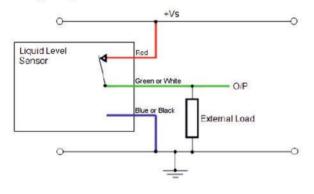
10V-45V_{DC}



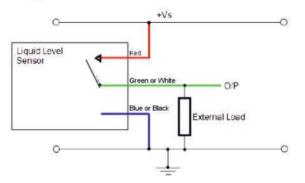




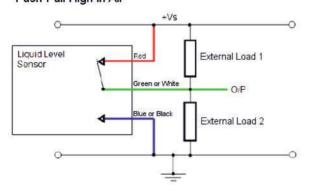
P-Type High in Air



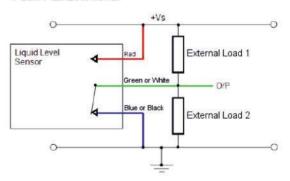
P-Type Low in Air



Push Pull High in Air



Push Pull Low in Air





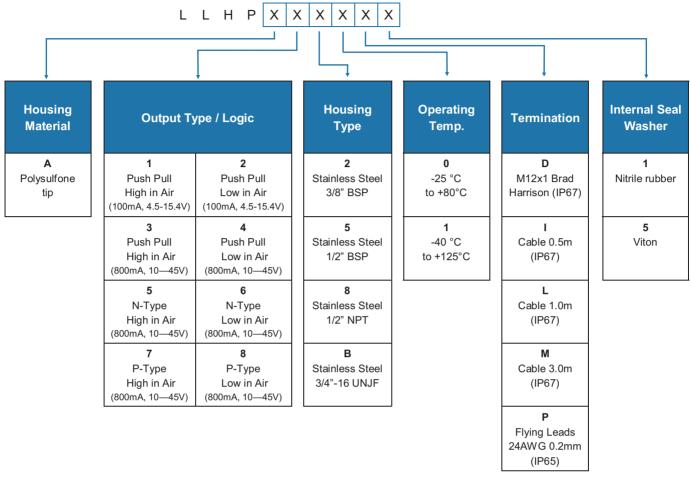
CAUTION: Take care when connecting loads.

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.



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 Polysulfone.

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-0037 REV 10

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