DATA SHEET Liquid Level Switches



Honeywell LLE Standard Temp Series Alternatives

For part numbers LLE101000, LLE102000, LLE103000 and LLE105000



- Liquid level switches that can detect almost any liquid type;
 oil or water based
- Choice of mounting; internal or external
- Choice of threads



Housing/ Mounting





Output Type/Logic





Supply Voltage



Output Current



Temp



BENEFITS

- Low power
- Low cost
- Compact design

OUTPUT VALUES

Output Voltage^b (Vout): lout = 100mA

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

X TECHNICAL SPECIFICATIONS

Supply voltage (Vs) $4.5V_{DC}$ to $15.4V_{DC}$

Supply current (Is) 2.5mA max. (Vs = $15.4V_{DC}$)

Output sink and source

current (lout) 100mA

Operating temperatures -25°C to +80°C

Storage temperatures -30°C to +85°C

Housing material^a Polysulfone

Sensor termination 24AWG, 250mm PTFE wires. 8mm tinned

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"

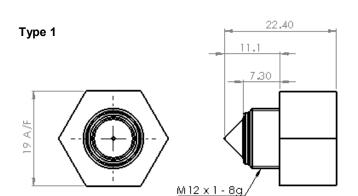




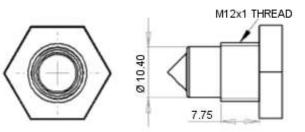
- a) Before use check that the fluid in which you wish to use these devices is compatible with Polysulfone.
- b) Voltages applicable to output value stated.

OUTLINE DRAWING

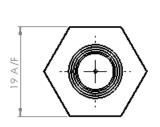
All dimensions shown in mm. Tolerances = ± 1 mm.

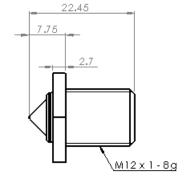






Type 3





HOUSING SPECIFICATIONS

	Housing Series - External Mounting	
	Type 1	Type 2
Thread	M12x1x8g	M12x1x8g with hex nut ^c
Pressure ^d	7 bar / 101 psi maximum	
Tightening Torque	1.5 Nm / 13.26 in-lbs maximum	

	Housing Series - Internal Mounting	
	Type 3	Type 5
Thread	M12x1x8g with hex nut ^c	M10x1
Pressure ^d	7 bar / 101 psi maximum	
Tightening Torque	1.5 Nm / 13.26 in-lbs maximum	Not Applicable

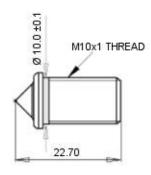
NOTE: In the cases of Type 1 and Type 3 sensors, the rear of the SST sensors are slightly longer than the Honeywell sensors.

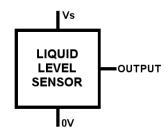
NOTE: The dimensions of the Type 5 part make it a "push in" part the same as LLE105000. Note that the sensor can also be secured using an M10 nut.

ELECTRICAL INTERFACE

Type 5





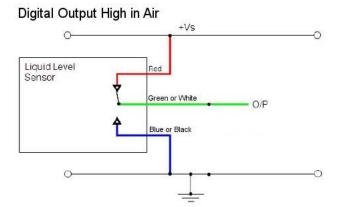


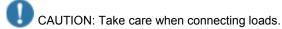
Wire	Designation
Red	Vs
Green	Output
Blue	0V



- Hex nut and washer supplied with Type 1, Type 2 and Type 3.
- d) When correctly sealed.







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.



Specify the part number you require.

Sensor mounted from outside vessel Sensor mounted from inside vessel Type 1 Type 3 L C 1 0 3 L C 1 0 1 Type 2 Type 5 С С 0 5 1 0 2 0 0

Please contact SST Sensing for details; email: technical@sstsensing.com



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 Polysulfone.

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.

