

Installation Instructions for Standard Temperature Optomax Series Liquid Level Sensors

GENERAL DESCRIPTION

The liquid level sensor provides a single point detection via a TTL compatible output.
An infra-red LED and phototransistor accurately positioned at the base of the cone ensure good optical coupling between the two when the sensor is in air. When the sensor's cone is immersed in liquid, the infra-red light escapes from the cone causing a change in the amount of light at the phototransistor which makes the output change state.

CLEANING

Proper fluids should be selected based on type of contamination to be removed. SST Sensing recommends freon and alcohol based solvents. DO NOT use chlorinated solvents such as trichlorethane as these are likely to attack the sensor material.

Liquid Media Compatibility

Before use check that the fluid in which you wish to use these devices is compatible with polysulphone.

ELECTRICAL SPECIFICATIONS

Supply voltage (Vs)	+5 Vdc to +12 Vdc \pm 5%
Supply current	15 mA nominal
Output Type	An "L" in the part number indicates that The sensor output will go low in air. Otherwise the output will be high in air.
Output sink current (Io)	10 mA max
Operating temperature	-25 °C to 80 °C
Storage temperature	-30 °C to 85 °C



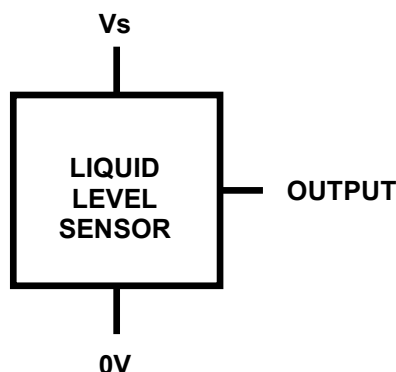
MOUNTING

Catalogue Listing

	LLC200D3SH LLC200D3LSH	LLC500D3 LLC500D3L	LLC600D3SH LLC600D3LSH
Standard temperature			
Thread	M12x1x8g with hex nut *	M10x1	½" SAE with o-ring *
Tightening torque	1.5 N m/13.26 in lb max.		
Pressure (using washer available separately)	7 bar max	20 bar max	7 bar max
Mounting hole	Ø12mm	Ø10mm	Ø ½ Inch
Housing Material	Polysulphone		
Sensor Termination	24AWG, 250mm PTFE Wires, 8mm Tinned		

* Hex nut and o-ring sold separately, please contact us for details.

Sensor Schematic



WIRE	DESIGNATION
RED	Vs
GREEN	OUTPUT
BLUE	0V

WARNING**Personal Injury**

DO NOT USE these products as safety or Emergency Stop devices or in any other application Where failure of the product could result in Personal injury.

Failure to comply with these instructions could Result in death or serious injury.

CAUTION

Do not exceed maximum ratings.

Although the sensor is protected against supply reversal, it is not recommended.

Do not overtighten screw-in type.

Do not use chlorinated solvents.

Do not mount with dome pointing downwards.

Failure to comply with these instructions may result in product damage.

For technical assistance or advice, please email us: info@m-buechner.de