



# Optomax Digital LLC200D3SH-LLPK1



Optomax Digital liquid level switches are ideal for applications with restricted space that require a miniature, low power and low cost sensing solution.

The microcontroller based sensor is solid state, incorporating an infra-red LED and phototransistor which are optically coupled by the tip when the sensor is in air. When the sensing tip is immersed in liquid, the infra-red light escapes making the output change state.



#### Housing/ Mounting



## Output Type / Logic





 $4.5V_{DC}$  to  $15.4V_{DC}$ 

100mA

2.5mA max. (Vs = 15.4V<sub>DC</sub>)

### Supply Voltage



### **Output Current**



#### Temp



#### X TECHNICAL SPECIFICATIONS

Supply voltage (Vs) Supply current (Is) Output sink and source

Output sink and source

current (lout)

Operating temperatures -25°C to +80°C
Storage temperatures -30°C to +85°C
Housing material Polysulfone¹
Sensor termination 24AWG, 250mr

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

Mounting thread<sup>2</sup> M12x1x8g with hex nut<sup>3</sup>
Operating pressure 7bar / 101psi maximum<sup>4</sup>
Tightening torque 1.5Nm / 13.26 in-lb maximum

#### OUTPUT VALUES

Output Voltage⁵ (Vout):Iout = 100mAOutput HighVout = Vs - 1V maxOutput LowVout = 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"





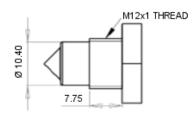
- Before use check that the fluid in which you wish to use these devices is compatible with Polysulfone.
- 2) Sensor is mounted externally.
- 3) Hex nut and O-ring sold separately; email: <u>technical@sstsensing.com</u> for details.
- 4) When correctly sealed.
- 5) Voltages applicable to output value stated

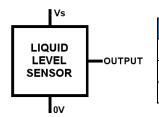




All dimensions shown in mm. Tolerances = ±1mm.

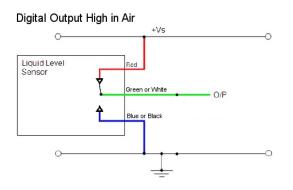






Wire	Designation
Red	Vs
Green	Output
Blue	0V

#### CIRCUIT DIAGRAM



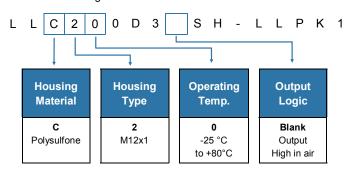
CAUTION: Take care when connecting loads.

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

Specify the part number listed below when ordering





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 tricholerthane as these are likely to attack the sensor material.

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

#### 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.

