mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Liquid Level Switches Optomax Industrial Glass Series



DESIGN • MANUFACTURE • CUSTOMISE • CONFIGURE

FEATURES

• Liquid level switches that can detect the presence or absence of oil or water based liquids

DATA SHEET

- Corrosion resistant, 316L stainless steel housing with hardened glass tip; suitable for harsh environments
- Compact size, wide operating temperature and pressure, choice of mounting threads





BENEFITS

- High power
- Industrial supply voltage
- Direct load drive design

APPLICATIONS

- Tank level control; fill/empty
- Leak detection
- Pump control
- Sump level switching

X TECHNICAL SPECIFICATIONS

Supply voltage (Vs)		
or		
Supply current (Is)		
or		
Output sink and source		
current (lout)		
Operating temperature ^a		
Storage temperature		
Operating pressure		
Housing material		
Sensor termination		

NOTES

 $\begin{array}{l} 4.5 V_{DC} \mbox{ to } 15.4 V_{DC} \\ 8 V_{DC} \mbox{ to } 30 V_{DC} \\ 2.5 \mbox{mA max.} \ (Vs = 15.4 V_{DC}) \\ 7.5 \mbox{mA max.} \ (Vs = 30 V_{DC}) \end{array}$

Up to 1A

-40°C to +125°C (-40°F to +257°F)
-40°C to +125°C (-40°F to +257°F)
0 to 600bar (0 to 8700psi)
316L Stainless steel with glass tip
20AWG, 250mm PTFE wires,
8mm tinned, potted back end

OUTPUT VALUES

Output Voltage ^b (Vout):	lout = 1A
Vs = 4.5—15.4V _{DC}	
Output High	Vout = Vs - 1.5V max
Output Low	Vout = 0V + 0.5V max

Output Voltage^b (Vout): lout = 1A Vs = 8—30V_{DC}

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

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"



a) Not suitable for use in freezing liquid or high condensing environments such as steam.b) Voltages applicable to output value stated.

OUTLINE DRAWING

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

G2x0 Series





HOUSING SPECIFICATIONS

	Housing Series	
	G2x0	G6x0
Thread	M12x1x8g with hex nut ^a	1/2" SAE with O-ring ^a
Pressure ^c	100 bar / 1450 psi maximum	
Tightening Torque ^d	3 Nm / 26.5 in-lbs maximum	

	Housing Series	
	G7x0	G8x0
Thread	1/4" NPT ^b	1/2" NPT⁵
Pressure ^c	100 bar / 1450 psi maximum	600 bar / 8702 psi max.imum
Tightening Torque ^d	3 Nm / 26.5 in-Ibs maximum	

G6x0 Series





G7x0 Series





MOUNTING SPECIFICATIONS

G2x0 & G6x0 Series









G7x0 & G8x0 Series



a) NOTES

Hex nut and O-ring sold separately; email: technical@sstsensing.com for details.

b) NPT version can be sealed with a curing type thread sealant such as "Loctite 565" with primer "N". Do NOT use PTFE tape. c) When correctly sealed.

d) Do NOT over-tighten as this can permanently damage the sensor.

In order to suit any application, these sensors have been designed with various output circuit configurations. They are identified by the 3-digit code at the end of the part number as shown in Order Information.



N-Type with Internal 10k Ω Pull-Up Resistor High in Air $$_{+Vs}$$



+Vs

External Load

O/P

N-Type with Flyback Protection Diode



N-Type with Internal 10kΩ Pull-Up Resistor







0



N&P-Type Push Pull Low in Air



P-Type High in Air

C

N-Type High in Air

Liquid Level

Sensor

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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.





Wire	Designation
Red	Vs
Green	Output
Blue	0V



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.



Other sensor options available on request, email: <u>technical@sstsensing.com</u> for details.

 CAUTION 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. 	DECOMPARTION 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 glass. 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.



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