

BENEFITS

Direct high current switching Industrial supply voltages Direct load drive design High pressure High temperature

APPLICATIONS

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

NOUTPUT VALUES

Output Voltage ^b (Vout): Vs = 4.5—15.4V _{DC}	lout = 1A
Output High	Vout = Vs - 1.5V max
Output Low	Vout = 0V + 0.5V max
Output Voltage ^b (Vout): Vs = 8—30V _{DC}	lout = 1A
Output High	Vout = Vs - 1.8V max
Output Low	Vout = $0V + 0.7V$ max
Output LOW	

Other sensor options available on request

X TECHNICAL SPECIFICATIONS

	4.5V _{DC} to 15.4V _{DC}
or	$8V_{DC}$ to $30V_{DC}$
	2.5mA max. (Vs = 15.4V _{DC})
or	7.5mA max. (Vs = 30V _{DC})
	Up to 1A
а	-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
	Flying leads or M12 connector
	or

a)

b)

NOTES

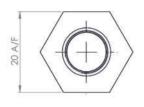
Not suitable for use in freezing liquid or high condensing environments such as steam. Voltages applicable to output value stated.

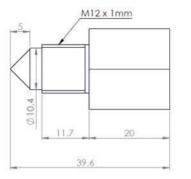
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OUTLINE DRAWING

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

G2x0 Series^c

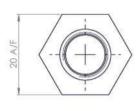


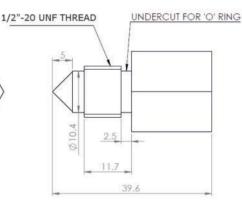


HOUSING SPECIFICATIONS

	Housing Series	
	G2x0	G6x0
Thread ^d	M12x1 with hex nut	1/2"-20 UNF with O-ring
Pressure ^e	100 bar / 1450 psi maximum	
Tightening Torque ^f	3 Nm / 26.5 in	-lbs maximum

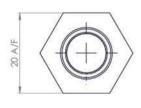
G6x0 Series

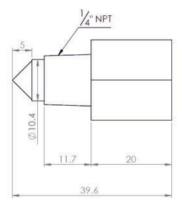




	Housing Series	
	G7x0	G8x0
Thread ^d	1/4" NPT	1/2" NPT
Pressure ^e	100 bar / 1450 psi maximum	600 bar / 8702 psi maximum
Tightening Torque ^f	3 Nm / 26.5 in-lbs maximum	

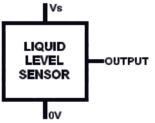
G7x0 Series^c





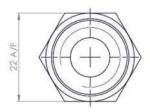


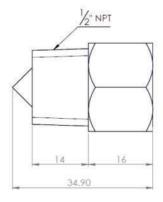
Flying Leads



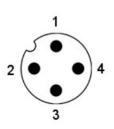
Wire	Designation
Red	Vs
Green	Output
Blue	0V

G8x0 Series





M12 Connector



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

NOTES

Standard switch dimensions shown; when fitted with M12 connector, the overall length of the switch is 63.6mm.

- d) Refer to mounting information on page 4.
- e) When correctly sealed.

c)

f) Do NOT over-tighten as this can permanently damage the switch.

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Inductive Load

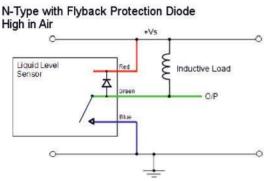
O/P

0

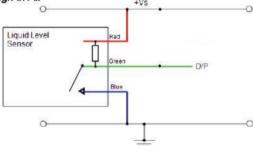
CIRCUIT DIAGRAMS

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

Low in Air



N-Type with Internal 10kΩ Pull-Up Resistor High in Air +Vs



N-Type High in Air

P-Type High in Air

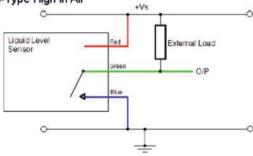
Liquid Level Sensor

C

0

O

N&P-Type Push Pull High in Air



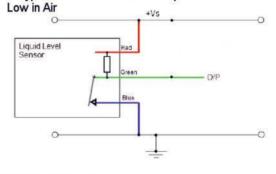
+Vs

Liquid Level Sensor 本 C

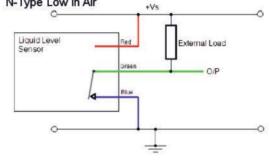
N-Type with Internal 10kΩ Pull-Up Resistor

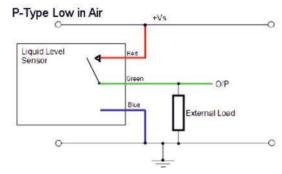
N-Type with Flyback Protection Diode

+Vs

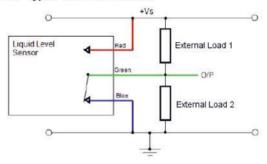


N-Type Low in Air





N&P-Type Push Pull Low in Air



Liquid Level Sensor External Load 1 O/P External Load 2 0 0

+Vs

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 switch.

O/P

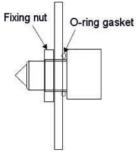
0

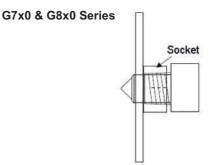
xternal Load

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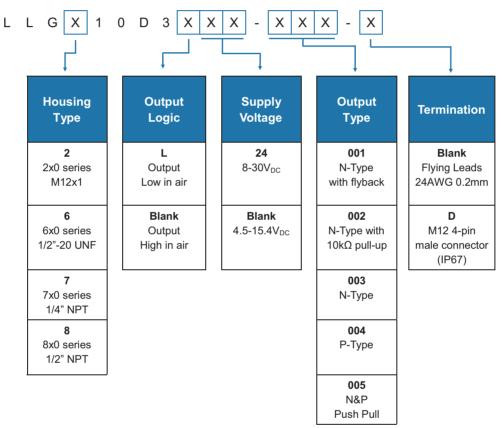
NOTE: Fixing nut and O-ring available separately; please email for details.

G2x0 & G6x0 Series





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

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.

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.

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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