

### 🐻 BENEFITS

- Low power
- Low cost
- Compact design

# K TECHNICAL SPECIFICATIONS

Supply voltage (Vs)
or
Supply current (Is)
Output sink and source current (lout)
Operating temperatures
Storage temperatures
Housing material <sup>a</sup>
Sensor termination

4.5 $V_{DC}$  to 15.4 $V_{DC}$ 4.5 $V_{DC}$  to 5.5 $V_{DC}$  (PWM output) 2.5mA max. (Vs = 15.4 $V_{DC}$ )

### 100mA

b)

Standard: -25°C to +80°C Extended: -40°C to +125°C Standard: -30°C to +85°C Extended: -40°C to +125°C Polysulfone or Trogamid®<sup>b</sup> 24AWG, 250mm PVDF wires, 10mm tinned

### VOUTPUT VALUES

Output Voltage (Vou	t):
Output High	
Output Low	

**lout = 100mA** Vout = Vs - 1.5V max Vout = 0V + 0.5V max

### PWM

Duty cycle in air Duty cycle in liquid Frequency

25% ± 10% 75% ± 10% 2kHz ± 10%

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 either with Polysulfone or Trogamid®. Some common fluids and compatibility can be found in SST's <u>Liquid Level Switches – Installation, Operation</u> and Compatibility Guide (AN 0041).

When using Trogamid® above +85°C some oil based liquids can cause deformation of the sensing tip, and must be tested for compatibility.

# **Î** OUTLINE DRAWING

All dimensions shown in mm. Tolerances =  $\pm 1$ mm.





Type 2





Туре 3





Type 5





11.7 2.5

1/2" UNF - 20

Type 6



Type 7





Ø10.4



#### Recommended nuts and sealing accessories outlined within the Accessory Table c) d) When correctly sealed.

### **B** HOUSING SPECIFICATIONS

Installation drawings and 3D (.step) files available on the product webpage.

		Housing Series	
	Type 1	Type 2	Туре 3
Thread		M12x1-8g	
Pressure <sup>d</sup>	7 bar	· / 101 psi maxii	mum
Tightening Torque	1.5 Nm	/ 13.26 in-lbs ma	aximum

		Housing Series	
	Type 5	Туре 6	Type 7
Thread	M10x1	1/2"-20 UNF	1/4" NPT
Pressure <sup>d</sup>	20 bar / 209 psi max.	7 bar / 101 p	si maximum
Tightening Torque	1.5 Nm	/ 13.26 in-lbs m	aximum

# **ELECTRICAL INTERFACE**

Vs			
	1	Wire	Designation
		Red	Vs
SENSOR		Green	Output
		Blue	0V
0V		L	1

Ø10.0±0.1 23.4 14.7

# CIRCUIT DIAGRAMS

In order to suit any application, these sensors have been designed with various output circuit configurations.



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.

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Generate your specific part number using the convention shown opposite. Use only those letters and numbers that correspond to the sensor and output options you require — omit those you do not require.

### Sensor mounted from inside vessel

#### Sensor mounted from outside vessel



### Notes:

- Type 3 and Type 5 sensors are mounted internally.
- Types 1, 2, 6 & 7 sensors are mounted externally.

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



# ACCESSORY TABLE

Thread	Housing Type	Accessory	Material	Order Code
M12	Type 2	Seal Washer	Nitrile	41000190-002
M12	Type 2	Seal Washer	EPDM	41000190-003
M12	Type 2	Seal Washer	VAMAC	41000190-004
M12	Type 2	'O' Ring	As Required	Not Sold by SST
M12	Type 2	Nut	Zinc-Plated Brass	LL-NUT-ZNC
M12	Type 2	Nut	Stainless Steel	LL-NUT-STS
M10	Type 5	Nut	Plastic (PLA)	LL-NUT-PLA
1/2" -20 UNF	Type 6	'O' Ring	As Required - See SAE J1926-1	Not Sold by SST
1/4" NPT	Туре 7	Sealing Tape	PTFE	Not Sold By SST
1/4" NPT	Туре 7	Sealing Compound	Sealing Compound must be compatible with housing material	Not Sold By SST

ST Sensing Ltd recommend using alcohol based cleaning agents. Trogamid®. Trogamid®. For technical assistance or advice, please email: technical@sstsensing.com
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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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