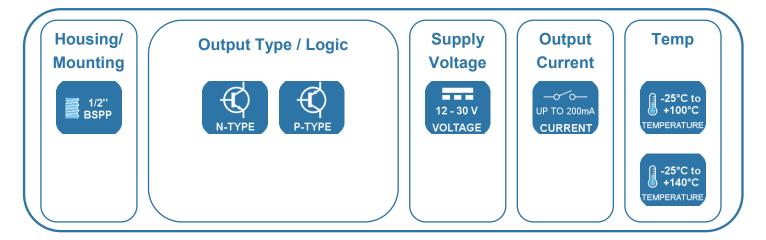
# 

# **DATA SHEET** Liquid Level Switches **POS Series**

# FEATURES

- Liquid level switches that can detect almost any liquid type; oil or water based
- Suitable for harsh environments; robust Stainless Steel housing and crystal glass tip
- Choice of terminal connections





### 

- Suitable for use within aggressive environments
- Extreme temperatures
- LED output indication

## **X** TECHNICAL SPECIFICATIONS

Supply voltage (Vs)	12V <sub>DC</sub> to 3
Supply current (Is)	25mA max
Output sink and source	
current (lout)	200mA ma
	D00407
Operating temperatures	POS187: -
	POS287: -:
Storage temperatures	-25°C to +8

BOV<sub>DC</sub> ٢. ax.

a)

b)

-25°C to +100°C -25°C to +140°C 80°C

Stainless Steel with Simax crystal glass tip<sup>a</sup> or

## OUTPUT VALUES

Housing material

Sensor termination

Output Voltage <sup>b</sup> (Vout):	lout = 200mA	
Vs = 12—30V <sub>DC</sub>		
Output High	Vout = Vs -	
Output Low	Vout = 0V ·	

M12 Brad Harrison connector PUR 3x0.25mm<sup>2</sup>, 2m cable

#### Vout = Vs - 1.5V max Vout = 0V + 0.5V max

peratures

NOTES

Before use check that the fluid in which you wish to use these devices is compatible with Simax crystal glass. Voltages applicable to output value stated.

### **Apollosense Ltd**

Shenzhen Adress: Room 712, Huaneng Building, Shennan Zhong Road, Shenzhen 518031, China Tel: (86-755) 83680810 83680820 83680830 83680860 Fax: (86-755) 83680866

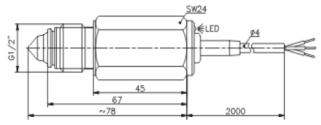
Hong Kong: Adress: Unit 1502, Hollywood Plaza, 610 Nathan Road, Mong Kok, Kln., H.K. Tel: (852) 2737 0903 Fax: (852) 2737 0938 Email : sales@apollounion.com



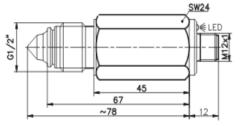
## OUTLINE DRAWING

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

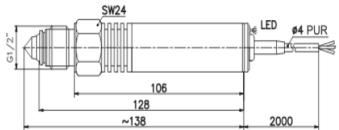
#### POS187-3XX



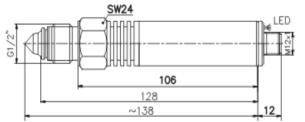
#### POS187-4XX



#### POS287-3XX



#### POS287-4XX



 Housing

 Housing

 POS187
 POS287

 Thread
 G1/2" (1/2" BSPP)

 Pressure°
 80 bar / 1160 psi maximum

 Sensor
 Cable: PUR 3 x 0.25mm², 2m long (IP68)

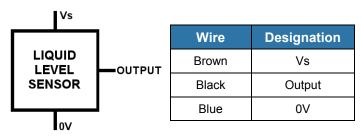
 Termination
 M40.4 Ps. dttle is a size (IP07)

M12x1 Brad Harrison micro (IP67)

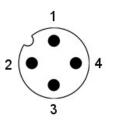
# ELECTRICAL INTERFACE

Recipications

Cable



#### Brad Harrison micro



Pin	Designation
1	Vs
2	Output: N-Type Low in Air P-Type High in Air
3	0V
4	Output: N-Type High in Air P-Type Low in Air

NOTES C)

c) When correctly sealed.

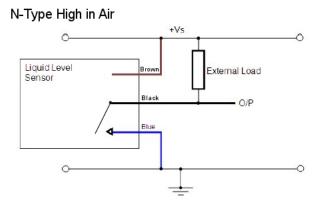
### Apollosense Ltd

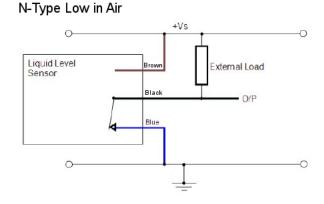
Shenzhen: Adress : Room 712, Huaneng Building, Shennan Zhong Road, Shenzhen 518031, China Tel : (86-755) 83680810 83680820 83680830 83680860 Fax : (86-755) 83680866 Hong Kong: Adress : Unit 1502, Hollywood Plaza, 610 Nathan Road, Mong Kok, Kln., H.K. Tel : (852) 2737 0903 Fax : (852) 2737 0938 Email : sales@apollounion.com



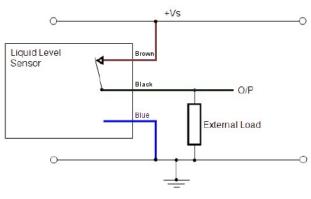
# 

In order to suit any application, these sensors have been designed with various output circuit configurations. They are identified by the 2-digit code at the end of the part number as shown in <u>Order Information</u>.

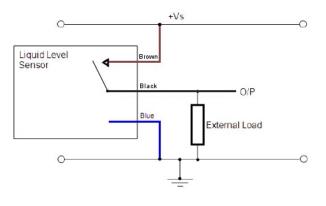




#### P-Type High in Air



#### P-Type Low in Air



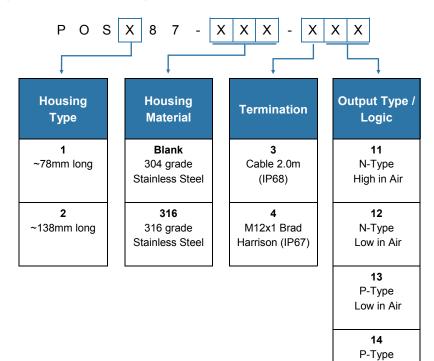
CAUTION: Take care when connecting loads. The minimum load impedance should not exceed Vs/max output current. **Note:** Shorting the output to Vs or 0V will result in irreparable damage to the sensor.

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# 

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



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. Apollosense Ltd recommend using alcohol based cleaning agents. Do NOT use chlorinated solvents such as trichloroethane as these are likely to attack the sensor material.	As customer applications are outside of Apollosense 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 or Trogamid®.
Failure to comply with these instructions may result in product damage.	

All information is subject to Apollosense Ltd.'s own data and considered accurate at time of going to print.

### Apollosense Ltd

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