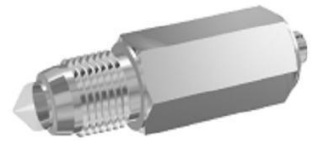# Installation Instructions for
POS Series Optical Liquid Level Sensors

GENERAL DESCRIPTION
The POS liquid level sensor provides single point level detection via an NPN or PNP output.

When the sensor output is closed, the output sinks or sources up to a maximum of 200mA allowing incandescent indicators, sounder or relays to be driven directly by the device.
M12 and cable connections are available as well as normally open (n.o.) and normally closed (n.c.) versions.

CLEANING
Proper fluids should be selected based on type of contamination to be removed. SST Sensing recommends freon and alcohol based solvents.

Liquid Media Compatibility
Before use check that the fluid in which you wish to use these devices is compatible with Simax crystal glass.

ELECTRICAL & ENVIRONMENTAL SPECIFICATIONS

| Sensor Family	POS187	POS287
Supply Voltage (Vs)	12 to 28Vdc	
Supply Current (Is)	< 25mA	
Output Sink/ Source Current (Io)	200mA max.	
Operating & Storage Temperature	-25 to 100 °C (temperature of medium)	-40 to 140 °C (temperature of medium)
Protection Standard	IP68 (cable version) / IP67 (connector version)	

MECHANICAL DETAILS

| Sensor Family	POS187	POS287
Cable Type (POSXXX-**3**XX)	PUR 3 x 0.25mm^2, 2m long	
Cable Type (POSXXX-**4**XX)	M12 Connector	
Dimensions	See drawings	
Thread	G1/2+	
Material	Stainless Steel housing/ Simax crystal glass sensing tip	

**POS187-3XX**
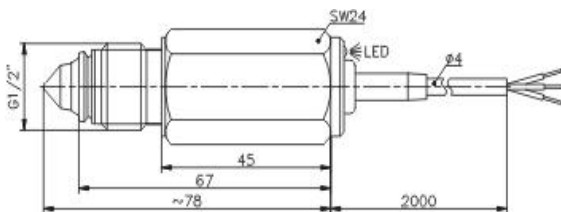
POS287-3XX
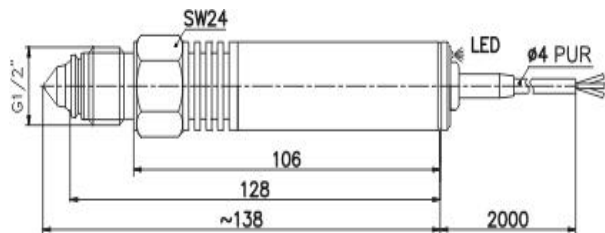

POS187-4XX
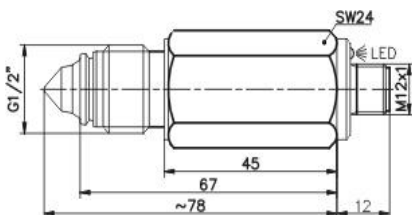
POS287-4XX
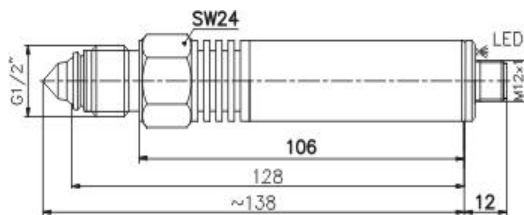
OUTPUT TYPES

In order to suit any application, these sensors have been designed with various output circuit configurations. They are identified by a 2-digit code at the end of the part number and are as follows:

Output Configuration	Part Number
NPN n.o.	POSXXX-X**11**
NPN n.c.	POSXXX-X**12**
PNP n.o.	POSXXX-X**13**
PNP n.c.	POSXXX-X**14**

NPN n.o.

NPN n.c.

PNP n.o.

PNP n.c.
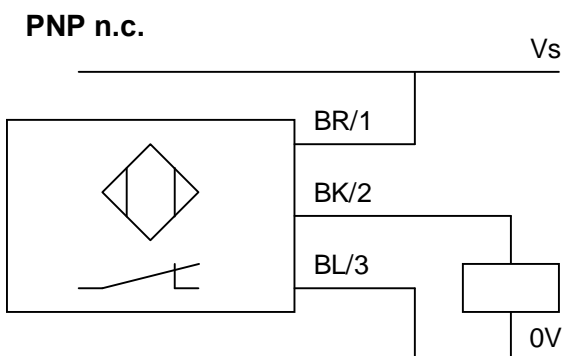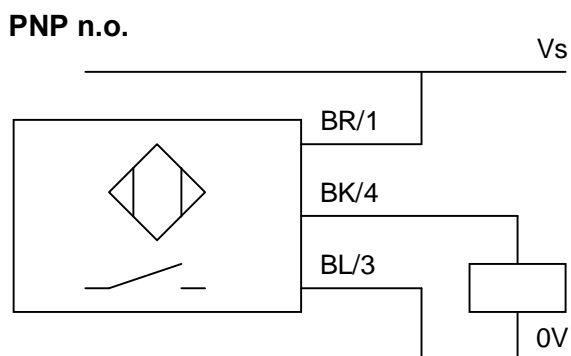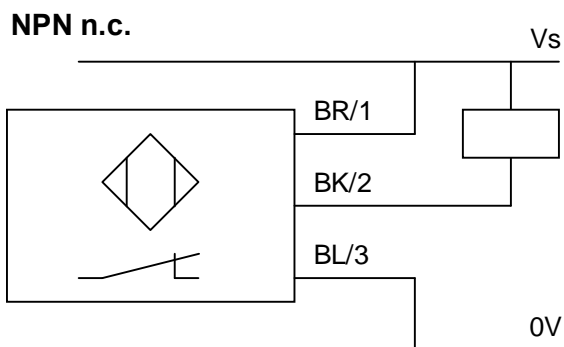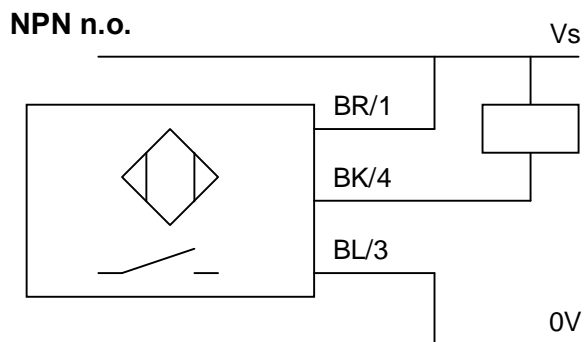
BR = Brown, BK = Black, BL = Blue. Numbers indicate connector pin number. Note that normally open and closed Conditions refer to the sensor being in air.
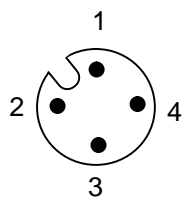
Brad Harrison M12 Connector pin designations (face view)