Honeywell

POS Series
Liquid Level Sensor

Description

The POS series optical liquid level sensors are supplied for use in a broad range of temperatures and with a choice of terminations.
The POS sensors can also be supplied with NPN or PNP, Normally Open or Normally Closed outputs.

The crystal tip permits compatibility with almost every fluid type and is compatible with the food and medical industry requirements.

The optical sensing technology allows orientation in any axis and the device can measure typically difficult fluids such as milk & highly viscous oils and can differentiate between froth and fluid.

Installation Instructions

CAUTION
- Do not exceed maximum supply voltage
- Although the sensor is protected against supply reversal, it is not recommended
- Do not over-tighten

Failure to comply with these instructions may result in product damage.

Features

- Solid state reliability – mo moving parts
- Miniature size
- Microprocessor compatible
- Very large choice of sensing media
- Reverse polarity protection
- Short circuit protection
- Cable or integral connector output options
- Wide Temperature range (-25 to 140° C)
- Stainless steel housing
- Any axis orientation

Typical Applications

- Automotive
- Industrial Systems and Tanks
- Spa bath
- Home appliances
- HVAC
- Food and beverage processing
- Compressors
- Machine tools
- Vending machines

Honeywell

Product Specifications

Nominal Voltage (V$_N$)
24Vdc

Supply Voltage (V$_S$)
12 - 28Vdc

Supply Current (I$_C$)
25mA

Output Current (I$_Z$)
200mA (max.)

Output Indicator
LED

Reverse Polarity Protection
Yes

Switching Distance (% of a dipped sensing tip)
<cca 50%

Switching Frequency
35Hz

Ambient Temperature Range
-25 to 100 ^{o}C (standard version)
-25 to 140 ^{o}C (elevated temperature version)

Housing Material
Stainless steel

Sensing Tip
Crystal glass

IP Rating
IP68 (Cable output)
IP67 (Connector output)

Standard termination is through 2m flying lead (Cable) or 4-pin M12 connector (Conn).

POS 187 = Standard Temperature Range
POS 287 = High Temperature Range

Warranty/Remedy

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact Honeywell for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace those items it finds defective. The foregoing is Buyer's sole remedy and is **in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.**

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we accept no responsibility for its use.
While we provide application assistance personally, through our literature and the Honeywell website, it is up to the customer to determine the suitability of the product in the application.

Contact Details

Honeywell Control Systems

Product Selection Guide

Part No.	Connection	Output	Temp Range
POS 187311	Cable	NPN n.o.	-25 to +100°C
POS 187312	Cable	NPN n.c.	-25 to +100°C
POS 187313	Cable	PNP n.o.	-25 to +100°C
POS 187314	Cable	PNP n.c.	-25 to +100°C
POS 187411	Connctr	NPN n.o.	-25 to +100°C
POS 187412	Connctr	NPN n.c.	-25 to +100°C
POS 187413	Connctr	PNP n.o.	-25 to +100°C
POS 187414	Connctr	PNP n.c.	-25 to +100°C
POS 287311	Cable	NPN n.o.	-25 to +140°C
POS 287312	Cable	NPN n.c.	-25 to +140°C
POS 287313	Cable	PNP n.o.	-25 to +140°C
POS 287314	Cable	PNP n.c.	-25 to +140°C
POS 287411	Connctr	NPN n.o.	-25 to +140°C
POS 287412	Connctr	NPN n.c.	-25 to +140°C
POS 287413	Connctr	PNP n.o.	-25 to +140°C
POS 287414	Connctr	PNP n.c.	-25 to +140°C