

OS150 – High Pressure Optical Liquid Level Sensor

The OS150 optical is a miniature point level sensor with built-in electronics and work with no moving parts. Optical sensors are an optimal choice if you are looking for non contact liquid level sensing. This mini optical switch is capable of measurements within 1/16" accuracy. Built-in optical electronics provide a switched output level sensor that can sense the presence or absence of fluids in temperatures up to 125°C.

OS150

The glass to metal seal allows high pressure liquid level sensing up 250 PSIG, and can be mounted via a 1/2" NPT port.

OS150 - Glass - Metal Optical Sensors - SS 1/2" NPT

OS150-N - Glass - Metal Optical Sensors - Nickel Plated Steel 1/2" NPT

| Part Number | Switch Type | Max Switching Current | Max Switching Voltage | Max Temp | Max Pressure |
|-------------|--------------|-----------------------|-----------------------|----------|--------------|
| OS150 | Current Sink | 18 mA | 30 VDC | 125° C | 250 psig |
| OS150-N | Current Sink | 18 mA | 30 VDC | 125° C | 250 psig |



| Input Power | Current Sink | 1/2" NPT Mounting | | Nickel Plated |
|-------------|--------------|-------------------|---------------|---------------------------|
| | | Stainless Steel | Nickel Plated | 3/4" - 16 Straight Thread |
| 5 VDC | Wet | OS-150A-05-0 | OS-150A-05-N | OS-150A-05-N1 |
| | Dry | OS-150B-05-0 | OS-150B-05-N | OS-150B-05-N1 |
| 12 VDC | Wet | OS-150A-12-0 | OS-150A-12-N | OS-150A-12-N1 |
| | Dry | OS-150B-12-0 | OS-150B-12-N | OS-150B-12-N1 |

OS-150A

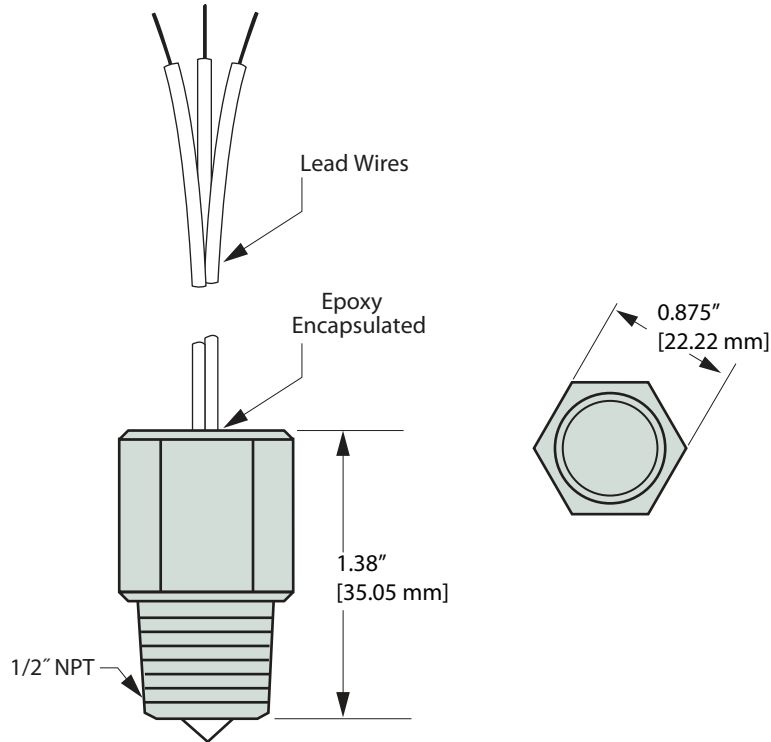
"ON" when Wet (wet sink output)

OS-150B

"ON" when Dry (dry sink output)

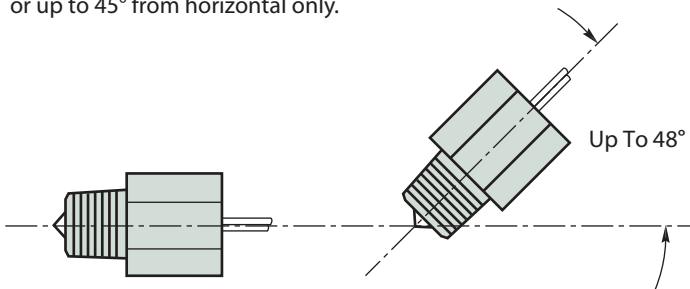
The main advantages of optical level sensors are their compact size, lack of moving parts, and their low cost. All while being extremely accurate for point level detection in high-stress environments. As a result of being a no contact and accurate, this sensor is ideal for use in the contamination prevention market, in systems like clean in place (CIP). Unmanned aerial vehicles (UAV) or drones are another ideal application for optical level sensors. Farms and agricultural businesses can use optical sensors on a drone, to spot possible issues in their crops helping to make quick decisions to save the rest of the field. It can also be used for safe landing of the drone.

1/2" NPT Mounting

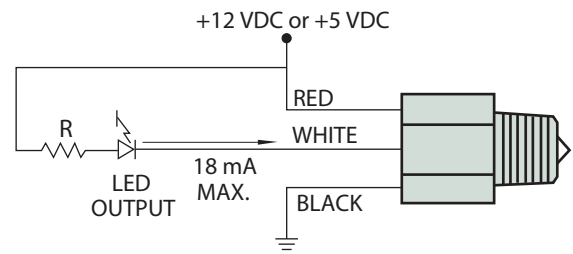


Mounting Attitude

These units must be mounted horizontally or up to 45° from horizontal only.



Wiring Diagrams



Note: Inductive loads must be diode suppressed.

