

## OEM Optical Level Switch



measuring  
•  
monitoring  
•  
analyzing

NSD



- PNP Open Collector Output
- Normally Open or Normally Closed Switch Logic
- Polysulfone or Stainless Steel Bodies
- Overcurrent and Reverse Polarity Protected
- LED Status Indicator
- Low Cost and Reliable Optical Sensing Technology
- OEM Targeted Product



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**Description**

The NSD series optical level switch is a low cost solid-state level sensor suited for clear, translucent, and non-coating low viscosity liquids. The NSD functions by detecting the difference in refraction between the liquid and air. An infrared LED inside the lens transmits a beam of invisible light. In air, the beam is reflected back into the sensing circuit to an infrared detector. In liquid, the beam is refracted away from the detector and results in switch activation or de-activation depending on the switch logic as ordered.

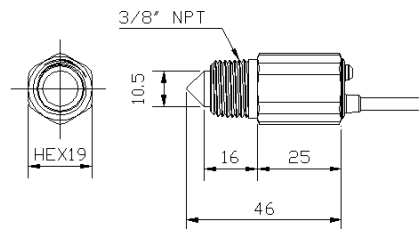
The NSD is available in Polysulfone, or 316 Stainless Steel with a Polysulfone lens. The switch output is a PNP open collector with normally closed (activated) dry or normally open (de-activated) dry logic, depending on the model code. A red LED status indicator is lit when the switch is activated.



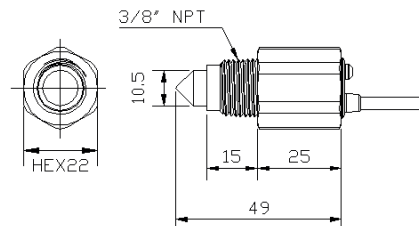
**Specifications**

- Suitable Media: Low viscosity, clear, translucent, non-coating liquids that are chemically compatible with the selected wetted materials
- Installation Orientation: Universal
- Material: 316 Stainless Steel or Polysulfone
- Fitting: 3/8" NPT standard (optional fittings available on request)
- Oper. Temp. Range: 15°...250 °F
- Max. Pressure:

**Dimensions (millimeter)**



**Stainless Steel**



**Polysulfone**

- Polysulfone 140 PSIG
- Stainless Steel 550 PSIG

Power Supply: 10...28 VDC

Max. Switch Load: 100 mA

Electrical Connection: 6 Ft. PVC jacketed cable

Electrical Protection: NEMA 6/IP68

Ordering Codes	
<b>NSD-..</b>	= OEM Optical Level Switch
<b>..G..</b>	= Polysulfone
<b>..6..</b>	= 316 Stainless Steel
<b>..AU..</b>	= 3/8" NPT
<b>..P0</b>	= PNP N/C dry
<b>..P1</b>	= PNP N/O dry

Body Material	Process Connection	Output
NSD-6	AU	P1

Example NSD Order Code

\* Alternate fitting, output, and electrical connection options are available, upon factory consultation.  
 \*\* 25 piece minimum order quantity for non-standard configurations