OEM Optical Level Switch

measuring • monitoring • analyzing

NSD

- PNP Open Collector Output
- Normally Open or Normally Closed Switch Logic
- 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 316 Stainless Steel with a Polyethersulfone 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

Fitting: 3/8” NPT standard (optional fittings available on request)

Oper. Temp. Range: 15°...250 °F

Max. Pressure:

Stainless Steel 580 PSIG

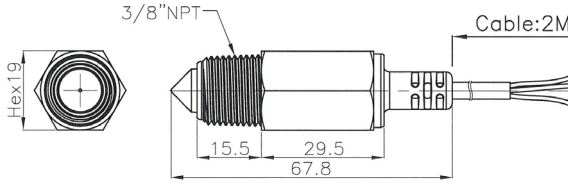
Power Supply: 10...28 V_{DC}

Max. Switch Load: 100 mA

Electrical Connection: 6 Ft. PVC jacketed cable

Electrical Protection: IP67

Dimensions (mm)



Ordering Codes

NSD-..	= OEM Optical Level Switch			
	..56..	= 316 Stainless Steel	**Body Material**	
		..AU..	= 3/8" NPT	**Process Connection** (others available upon request)
			..P0 = PNP N/C dry **..P1** = PNP N/O dry	**Output**
NSD-	**56**	**AU**	**P1**	Example NSD Order Code

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

No responsibility taken for errors;
subject to change without prior notice.