

# ELS-950 Series

## Rugged Electro-Optic Level Sensors

The ELS-950 Series represents Gems' smallest electro-optic level sensors developed to monitor a broad range of media including OHV type fluids.

Our UL-approved design features a TPE over-molded electronics insert, TPE insulated wires, and fluorocarbon o-ring seals that create a watertight, environmentally resistant assembly, ideally suited for use in harsh environments offering excellent temperature and pressure capabilities.

The ELS-950 is excellent for industrial OEMs requiring a solid-state sensor for small space and high temperature environments.



File No. E108913

### Specifications

<b>Materials</b>	
<b>Housing</b>	Polysulfone (Contact Gems for alternative material types)
<b>Prism</b>	Polysulfone
<b>O-Ring</b>	Fluorocarbon (1/4-18 NPSM - None)
<b>Electronics</b>	Over-molded TPE
<b>Max. Operating Pressure</b>	0 to 250 psi (0 to 17 bar)
<b>Operating Temperature*</b>	-40°F to +230°F (-40°C to 110°C)
<b>Current Consumptions (No Load)</b>	
5 VDC	4 mA No Load
12 VDC	10mA No Load
<b>Output</b>	Sink 40 mA max., up to 30 VDC
<b>Repeatability</b>	±1 mm
<b>Lead Wires</b>	3× TPE Insulated; 22 AWG
<b>Approvals</b>	CE, UL file No. E108913 IP66/67 Rating ROHS Compliant

\* These switches are not for use in freezing liquids or steam/high condensation environments. Contact Gems for alternative solutions.

### How To Order

Specify Part Number based on Input and Output Condition required.

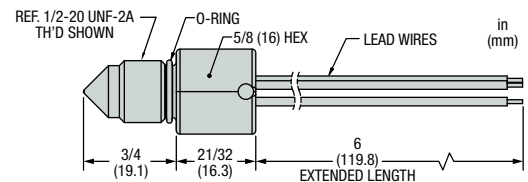
Input Power	Actuation Condition	Lead Wire Length	Mounting Type		
			1/4-18 NPSM	1/2-20 UNF-2B*	M12 x 1 - 8g*
5 VDC ±10%	Wet	6"	224504 ⚡	224501 ⚡	224508 ⚡
		2 m	—	—	226549
	Dry	6"	—	—	224509
		2 m	—	—	226550
12 VDC ±10%	Wet	6"	224506 ⚡	—	224510 ⚡
		2 m	—	—	226551
	Dry	6"	—	—	224511 ⚡

\* Supplied with standard fluorocarbon o-ring.  
⚡ Stock items.

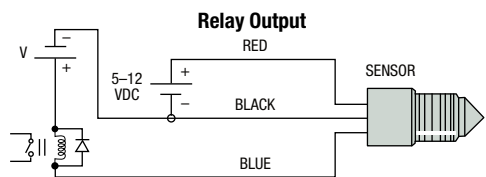
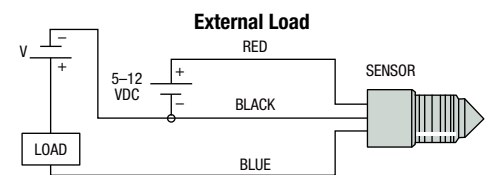
### Typical Applications

- Coolant reservoir monitoring and warning
- Medical diagnostic, sterilizer, washers and dialysis equipment
- Low lubricant warning on machine tools, generator sets, on- or off-highway vehicles
- Low level warning in hydraulic reservoirs
- Plastic over flow bottles, plastic radiators
- Leak detection for drip pans

### Dimensions



### Wiring Diagrams



LEVEL SWITCHES - SINGLE POINT