ELS-950 Series
Rugged Electro-Optic Level Sensor

The ELS-950 Series represents Gems' smallest electro-optic level sensor 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.

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

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

Specifications

Materials	
Housing	Polysulfone (Contact Gems for alternative material types)
O-Ring	
1/2"- 20UNF Mounting	Fluorocarbon
M12x1-8 Mounting	Fluorocarbon
Electronics	Over-molded TPE
Operating Pressure	0 to 250 PSI (0 to 17 bar) maximum
Operating Temperature	-40°F to +230°F (-40°C to 110°C)
Current Consumptions (No Load)	
5 VDC	4 mA
12 VDC	10mA
Output	Sink 40 mA max., up to 30 VDC
Repeatability	±1 mm
Approvals	CE, UL file No. 108913 IP66/67 Rating Pending ROHS Compliant

How To Order

Specify Part Number based on Input and Output Condition required.

Input Power	Actuation Condition	Lead Wire Length	Mounting Type		
			1/4" MNPT	1/2"- 20UNF-2B	M12x1-8
5 VDC ±10%	Wet	6 inches	224504 ⚡	224501 ⚡	224508 ⚡
		2 meters	226545	226541	226549
	Dry	6 inches	224505	224502 ⚡	224509 ⚡
		2 meters	226546	226542	226550
12 VDC ±10%	Wet	6 inches	224506 ⚡	224503 ⚡	224510 ⚡
		2 meters	226547	226543	226551
	Dry	6 inches	224507 ⚡	223625 ⚡	224511 ⚡
		2 meters	226548	226544	226552

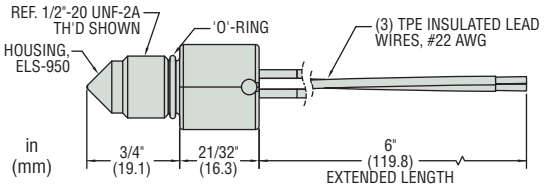
Note: Cable length available in 6˝ or 2 meters

⚡ – Stock Items.

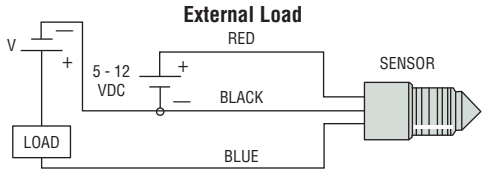
File No. E108913

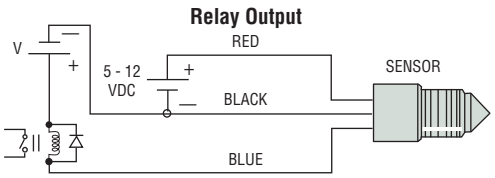
ELS-950 shown with over-molded electronics and o-ring sealing exposed. Actual units are not designed for disassembly.

Dimensions



Wiring Diagrams





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