

# 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.

## Specifications

Materials Housing	Polysulfone (Contact Gems for alternative material types)			
Prism	Polysulfone			
0-Ring	Fluorocarbon (1/4" MNPT - None)			
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)			
<b>Current Consumptions (No L</b>	.oad)			
5 VDC	4 mA No Load			
12 VDC	10mA No Load			
Output	Sink 40 mA max., up to 30 VDC			
Repeatability	±1 mm			
Lead Wires	3x TPE Insulated; 22 AWG			
Approvals	CE, UL file No. E108913			
	IP66/67 Rating			
	ROHS Compliant			

<sup>\*</sup> 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 Actuation Power 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
	6 inches	224505	224502 🗲	224509
	2 meters	226546	226542	226550
12 VDC ±10%	6 inches	224506 🗲	224503 🗲	224510 🗲
	2 meters	226547	226543	226551
	6 inches	224507 🗲	223625 🗲	224511 🗲
	2 meters	226548	226544	226552
	Condition  Wet  Dry  Wet	Condition     Length       Wet     6 inches       2 meters     6 inches       Dry     2 meters       Wet     6 inches       2 meters     6 inches       2 meters     6 inches	Condition         Length         1/4" MNPT           Wet         6 inches         224504 #           2 meters         226545           Dry         6 inches         224505           2 meters         226546           Wet         6 inches         224506 #           2 meters         226547           6 inches         224507 #	Condition         Length         1/4" MNPT         1/2"-20UNF-2B*           Wet         6 inches         224504 /r         224501 /r           2 meters         226545         226541           Dry         6 inches         224505         224502 /r           2 meters         226546         226542           Wet         6 inches         224506 /r         224503 /r           2 meters         226547         226543           6 inches         224507 /r         223625 /r

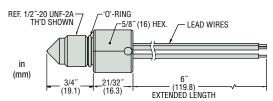
Supplied with standard fluorocarbon o-ring.



# **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

