

# 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

| Polysulfone (Contact Gems for alternative material types) |  |  |
|---|--|--|
| Polysulfone   |  |  |
| Fluorocarbon (1/4" MNPT - None)                           |  |  |
| Over-molded TPE   |  |  |
| 0 to 250 PSI (0 to 17 bar) maximum                        |  |  |
| -40°F to +230°F (-40°C to 110°C)                          |  |  |
| oad)  |  |  |
| 4 mA No Load  |  |  |
| 10mA No Load  |  |  |
| Sink 40 mA max., up to 30 VDC                             |  |  |
| ±1 mm   |  |  |
| 3x TPE Insulated; 22 AWG                                  |  |  |
| 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          | Actuation<br>Condition | Lead Wire<br>Length | Mounting Type |                 |          |
|----------------|------------------------|---------------------|---------------|-----------------|----------|
| Power          |                        |                     | 1/4" MNPT     | 1/2"- 20UNF-2B* | M12x1-8* |
| 5 VDC<br>±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<br>±10% | Wet                    | 6 inches            | 224506 🗲      | 224503 🗲        | 224510 🗲 |
|                |                        | 2 meters            | 226547        | 226543          | 226551   |
|                | Dry                    | 6 inches            | 224507 🗲      | 223625 🗲        | 224511 🗲 |
|                |                        | 2 meters            | 226548        | 226544          | 226552   |

Supplied with standard fluorocarbon o-ring.

🗲 – Stock Items.

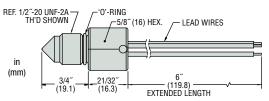


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# **Typical Applications**

- · 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

