# ELS-1150 Series
# Electro-Optic Level Switch
# (Carbon Steel & Stainless Steel)

## *Installation*

**1a.** **3/4" Straight Thread Switch**: Thread sensor into tank wall and tighten by hand. Tighten to a maximum torque of 15 ft-lbs.

**1b.** **1/2" NPT Switch:** Apply a curing type thread sealant (such as Loctite #565 with primer "N"), which is compatible with the liquid media. We do not recommend pipe tape. For Carbon Steel units torque one to two turns (maximum) past the hand-tight engagement. For Stainless Steel units torque one turn (maximum) past the hand-tight engagement.**Over Torque of sensor can permanently damage sensor.**

**2.** Sensor may be installed **horizontally** or **up to 45° from horizontal**, only. ***(See Figure 1)***

**3.** Do not install sensor close to infrared sources.

**4.** Prism surface must be at least 2" from any reflective surfaces.

**5.** Inductive loads must be diode-suppressed.

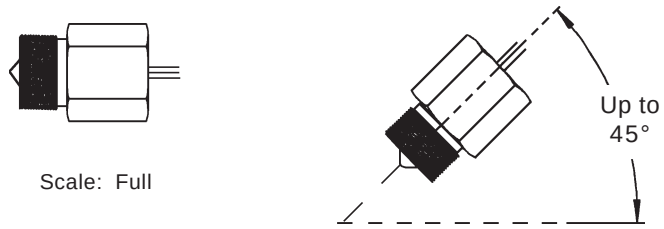
## *Specifications*

| | |
|---|---|
| **Materials** | |
| **Housing** | Nickel-Plated Carbon Steel or 316SS |
| **Prism** | Fused Glass |
| **Operating Pressure** | 0 to 2500 psig, Max. |
| **Operating Temperature** | -40°F to 212°F (-40°C to 100°C) |
| **Current Consumption** | ≈1 mA |
| **Output** | Sourcing Output, 50 mA Source Max. |
| **Electrical Termination** | 22 AWG, Polymeric, 12" to 14" Extended Lead Wires |
| **Repeatability** | ±1 mm |
| **Supply Voltage** | 5 - 24 VDC ±5% |

***Note: Not for use in freezing liquids***

## *Mounting Attitude*

These units must be mounted horizontally or up to 45° from horizontal, ONLY.




***- Figure 1 -***

## *Maintenance*

Sensor may require a periodic cleaning of prism surface. A mild detergent may be used to clean prism surface.

## *Typical Wiring Diagram*