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.

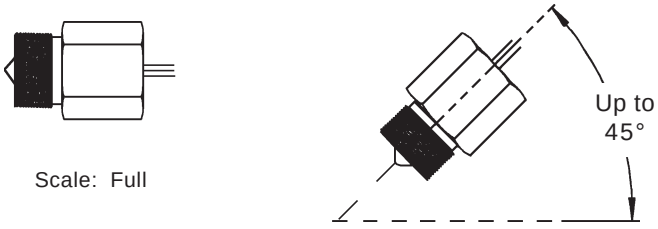
Specifications

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.

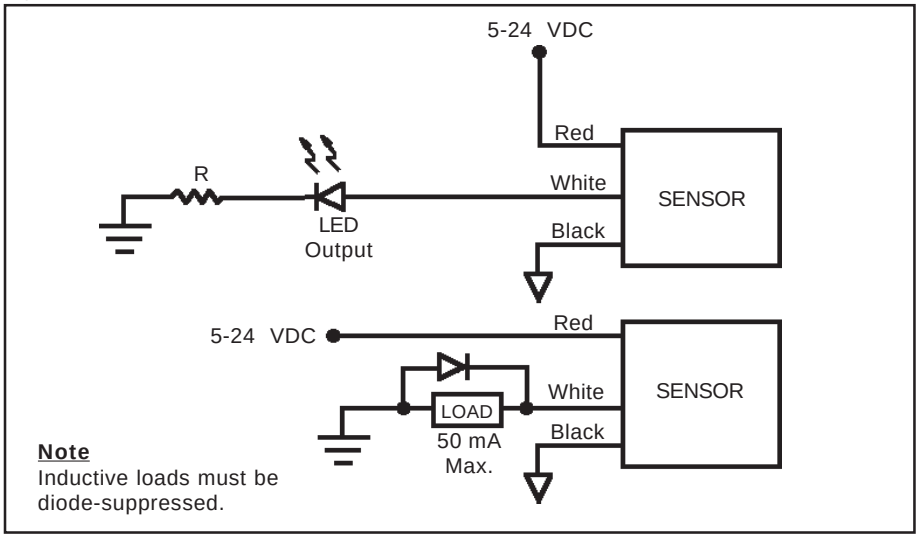


- Figure 1 -

Maintenance

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

Typical Wiring Diagram



Note
Inductive loads must be diode-suppressed.