



# LVE 115/116 Series Electro-Optic Level Switch



**M-5175/1112**

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### Installation:

- 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. Connect appropriate voltage supply to red lead. For 12 VDC units, connect to 12 VDC ±5%.
6. Inductive loads must be diode-suppressed.
- 7.

### Maintenance:

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

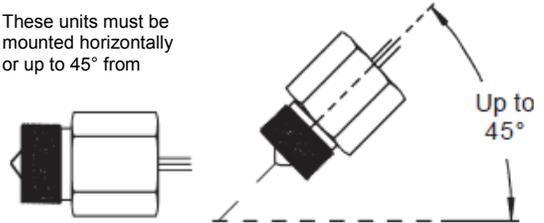
### Specifications

Materials:	
Housing	Nickel-Plated Carbon Steel
Prism	Fused Glass
Operating Pressure	0 to 2500 psig, Max
Operating Temperature	-40°F to 212°F (-40°C to 100°C)
Current Consumption	12V ~34mA No Load
Output	Open Collector Output, 18 mA Sink Max.
Electrical Termination	22 AWG, Polymeric, 12" to 14" Extended Lead Wires
Repeatability	±1 mm
Approvals	Units Labeled C.E. EN 61326

Note: Not for use in freezing liquids.

### Mounting Attitude

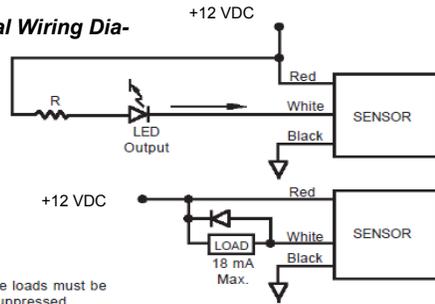
These units must be mounted horizontally or up to 45° from



### Important Points:

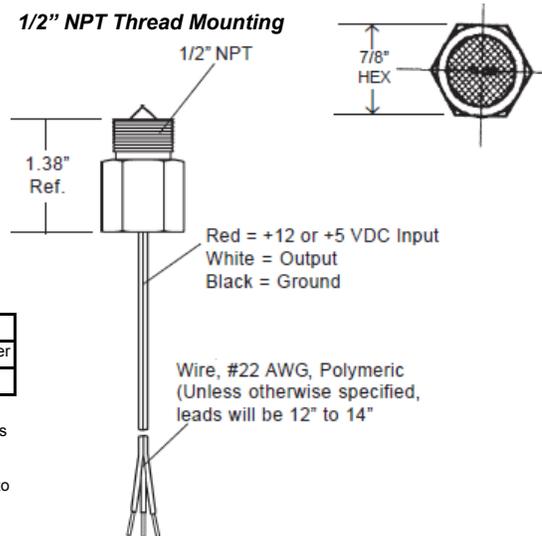
- Omega products must be maintained and installed in strict accordance with the National Electrical Code and the applicable Omega Product Instruction Bulletin that covers installation, operation and proper maintenance. Failure to observe this information may result in serious injury or damages.
- For hazardous area applications involving such things as, but not limited to, ignitable mixtures, combustible dust and flammable materials, use an appropriate explosionproof enclosure or intrinsically safe interface device.
- Please adhere to the pressure and temperature limitations shown throughout this catalog for our level and flow sensors. These limitations must not be exceeded. These pressures and temperatures take into consideration possible system surge pressures, temperatures and their frequencies.
- Selection of materials for compatibility with the media is critical to the life and operation of Omega products. Take care in the proper selection of materials of construction, testing is required.
- Our sensors have been designed to resist shock and vibration. However, shock and vibration should be minimized.
- Filter liquid media containing particulate and/or debris to ensure the proper operation of our products.
- Electrical entries and mounting points in an enclosed tank may require liquid/vaporsealing.
- Our sensors must not be field-repaired.
- Physical damage sustained by product may render it unserviceable.

### Typical Wiring Dia-



Note: Inductive loads must be diode-suppressed.

### 1/2" NPT Thread Mounting



Max Ambient Light	
Black Container	Opaque Container
390 FT-CD	30 FT-CD

Note:  
Above testing is based on minimum readings of at least two (2) samples.

The test depicted to the left was performed to determine the sensor immunity level to ambient light. The recorded ambient is the

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**WARNING:** These products are not designed for use in, and should not be used for, human applications.

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The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

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1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

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1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

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