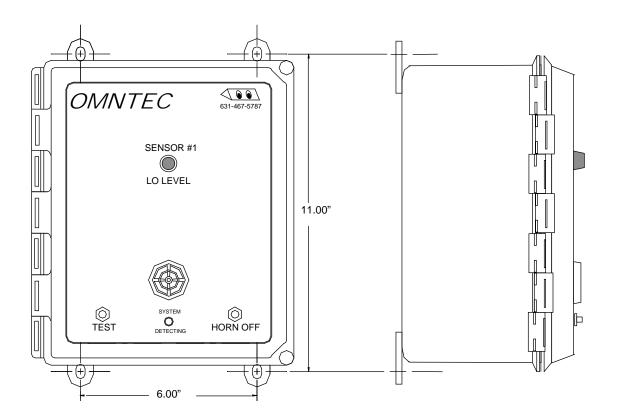
OMNTEC LU1-SP1

### ONE CHANNEL



### **LU1-SP1 Specifications**

#### **POWER INPUT**

85-125 VAC, 47-440 Hz 16 Watts maximum

### **POWER TO SENSORS**

2 VDC @ 13 ma

## **RELAY OUTPUT**

SPST normally open dry contacts 1.25 AMPS, 120 AC/DC switches when an alarm condition occurs

# **WEIGHT DIMENSIONS** 6 LBS. (W) 9" x (H) 10.5"

### **SENSOR CABLE**

Shielded 22 AWG UL-E118830 CM Maximum length 2000 feet

# ENCLOSURE OPERATING TEMPERATURE NEMA 4X -40° to 140° F

### **AUDIO/VISUAL CONSOLE**

AUDIBLE ALARM - 95 dB pulsing horn with 30 second timeout

**AMBER LIGHT** -Indicates liquid alarm for L-series sensors

**TEST BUTTON-** When pressed will actually test entire system electronics from control panel to sensors

**GREEN LIGHT-** indicates the power is on

**HORN OFF BUTTON** - Silences the audible alarm when pressed

#### **SENSORS**

L-1 Single point liquid level optic sensor for low level

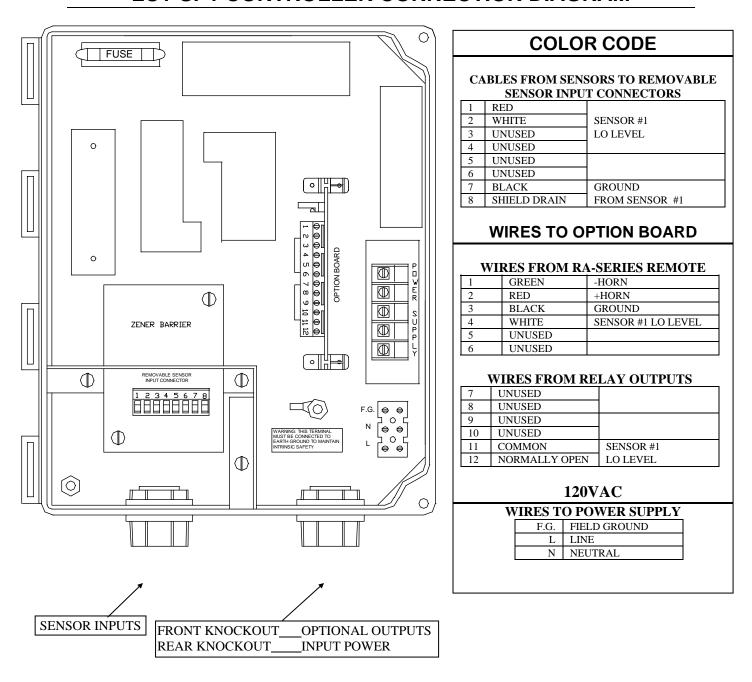
#### **ACCESSORIES**

RA-1 audio/visual remote annunciator RLY-RA Relay (consult factory) RA-1-NYS Remote annunciator with strobe (consult factory)

#### **LABELS**

Provided with controller

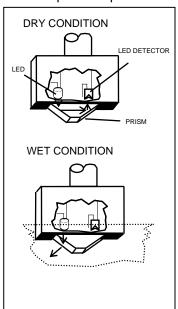
# **LU1-SP1 CONTROLLER CONNECTION DIAGRAM**

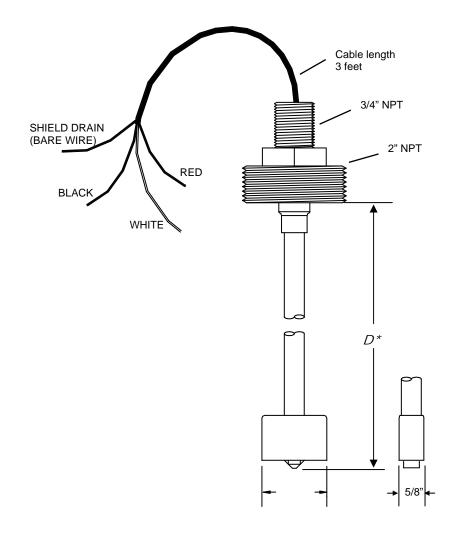


NOTE: To maintain proper shielding, <u>BLACK sensor wires</u> and SHIELD DRAINS <u>should not be connected together</u> at sensors.

# Liquid Level Optic Sensor

### **Principles of Operation**





#### **L-1 SPECIFICATIONS**

#### U.L. LISTED 5L04

Intrinsically safe Class I, Group D Hazardous Locations when connected in accordance with Control Drawing nos. L1, L2, L3, L4, L6, L9

# **OPERATING TEMPERATURE**

-40 TO +140 F

### **POWER**

2 VDC @ 13 mA

### **WEIGHT**

2 pounds

## **PRINCIPLES OF OPERATION**

LIQUIDS (ex: fuel, water) – Photo Optic
DRY CONDITION – Normally closed light beam
ALARM CONDITION – Opens (refracts) normally closed light beam

### **SENSOR CABLE**

Shielded 22 AWG UL-E118830 CM Maximum length 2000 feet

## **RESPONSE TIME**

Immediate

# **RA-Series Remote High Level Alarm**

RA-1



RA-2



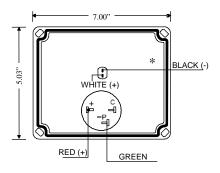
RA-3

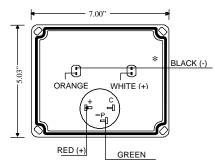


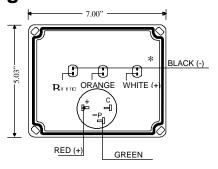
RA-4

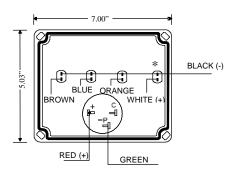


# **Internal Wiring Color Code**









\* WARNING LABEL PLACED HERE: Warning: Low voltage inputs only

#### **SPECIFICATIONS**

Audible Alarm 95 dB pulsing horn
Red Light Liquid-high-level alarm

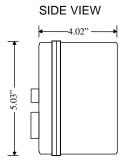
Response Time Immediate

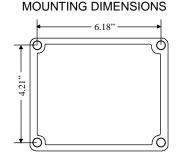
Power Input 12VDC @200mA maximum

from controller

Wire 22 AWG minimum

Weight 1 lb.





Note: It is recommended that knockouts be placed in the bottom of the enclosure

# **LOG SHEET**

DATE	NAME	SYSTEM STATUS	SIGNATURE

# WARRANTY

The seller OMNTEC Mfg., Inc. warrants to buyer defects when properly installed, and maintained by user. The sellers sole obligation is to repair or replace parts found to be defective, or non-conforming for one year and only after evaluation by factory. The liability of the seller shall not exceed the price paid for the components found to be defective. The above warranty is exclusive of all other warrantees whether implied or expressed. Seller assumes no obligation for special or, indirect damages incurred by user.

All standard tank gauging systems are free of defects when properly installed and maintained by user. Warranty on tank gauging systems will only be effective after proper documentation has been submitted by the buyer to OMNTEC Mfg., Inc. The sellers sole obligation is to repair or replace parts found to be defective, or non-conforming for one year and only after evaluation by factory. The liability of the seller shall not exceed the price paid for the components found to be defective. The above warranty is exclusive of all other warrantees whether implied or expressed. Seller assumes no obligation for special or indirect damages incurred by user.

All standard replacement parts, "add-ons", or spare parts are free of defects when properly installed and maintained by user. The sellers sole obligation is to repair or replace parts found to be defective or non-conforming for 90 days and only after evaluation by factory. The liability of the seller shall not exceed the price paid for the components found to be defective. The above warranty is exclusive of all other warrantees whether implied or expressed. Seller assumes no obligation for special or indirect damages incurred by user.

Equipment not covered by this warranty includes, but is not limited to: custom equipment, pressure transducers, and control systems.