OMNTEC LU2-OWIR **OIL WATER SEPARATOR ALARM CONSOLE OMNTEC** 631-467-5787 OIL WATER SEPARATOR HI OIL LEVEL LEAK SENSOR 11.00" SVSTEN \bigcirc \bigcirc O TĚST HORN OFF (+ 6.00"

SPECIFICATIONS

POWER INPUT

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

POWER TO SENSORS

13.80 VDC @ 13 ma maximum

RELAY OUTPUT

SPST normally open dry contacts 0.5 AMPS, 120 AC/DC switches when an alarm condition occurs

| WEIGHT | ENCLOSURE | DIMENSIONS |
|---------------|-----------|--------------------|
| 6 LBS. | NEMA 4X | (W) 9" x (H) 10.5" |

OPERATING TEMPERATURE -40° to 140° F

SENSOR CABLE

Shielded 22 AWG UL-E118830 CM Maximum length 2000 feet

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NEMA 4X

<u>UL LISTED</u>

Intrinsically safe circuits for use in class I group D hazardous locations when connected in accordance with control drawing LU2OWIR

AUDIO/VISUAL CONSOLE

AUDIBLE ALARM - 95 dB pulsing horn with no timeout HI OIL LIGHT - Indicates oil has accumulated below the hi oil interface float or the tank liquid level is below the hi oil interface float

RED LEAK LIGHT - Indicates hi alarm for L-R-1 or product alarm for PD-series sensor

AMBER LEAK LIGHT - indicates low level alarm for L-R-1 or water alarm for PD-series sensor

TEST BUTTON - When pressed will actually test entire system electronics from control panel to sensors **GREEN LIGHT** - Indicates the power is on

 $\ensuremath{\text{HORN OFF BUTTON}}$ - Silences the audible alarm when pressed

SENSORS

| OWI-1 | Single point oil/water interface float sensor |
|-----------|---|
| L-R-1 | Reservoir sensor |
| PD-series | Product distinguishing liquid optic sensor |

ACCESSORIES

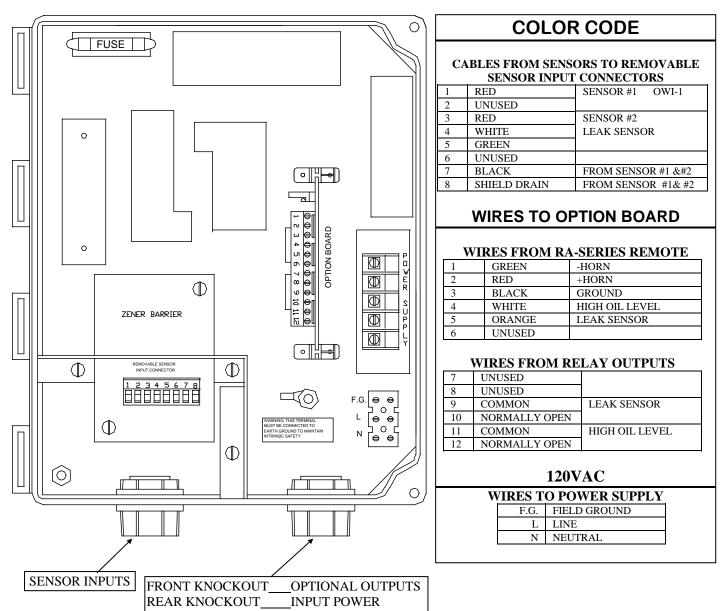
RA-1 audio/visual remote annunciator RLY-RA Relay (consult factory) RA-1-NYS Remote annunciator with strobe (consult factory)

LABELS

Provided with controller

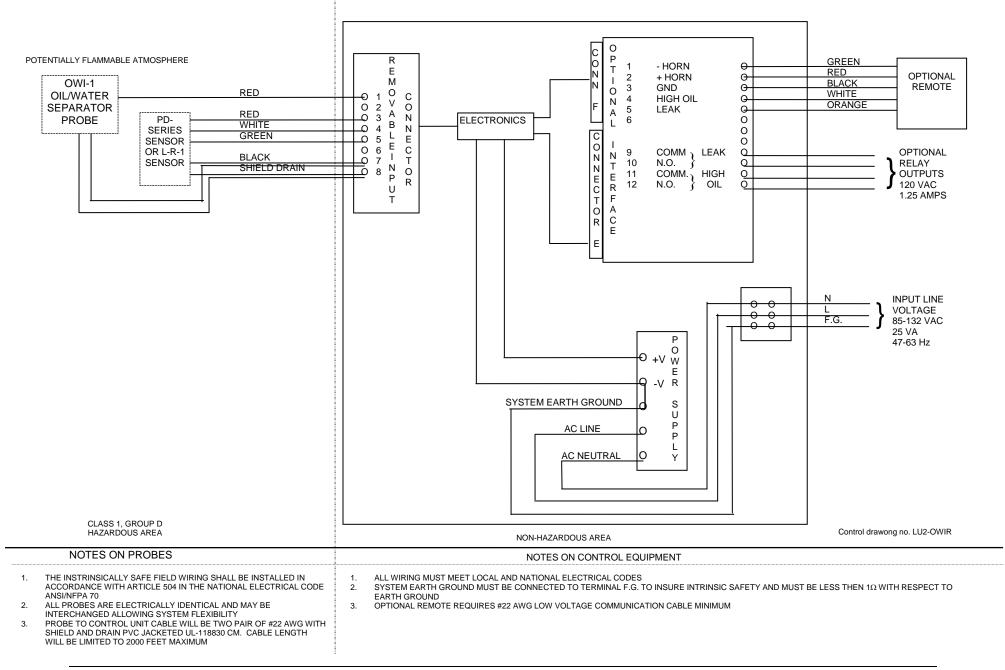
LU2-OWIR

CONTROLLER CONNECTION DIAGRAM

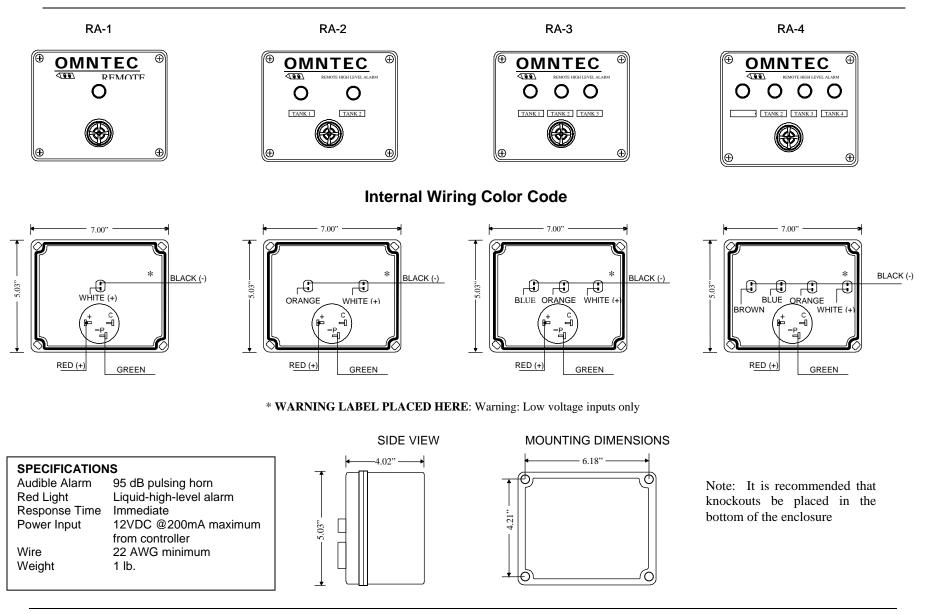


NOTE: To maintain proper shielding, <u>BLACK sensor wires</u> and SHIELD DRAINS should not be connected together at sensors.

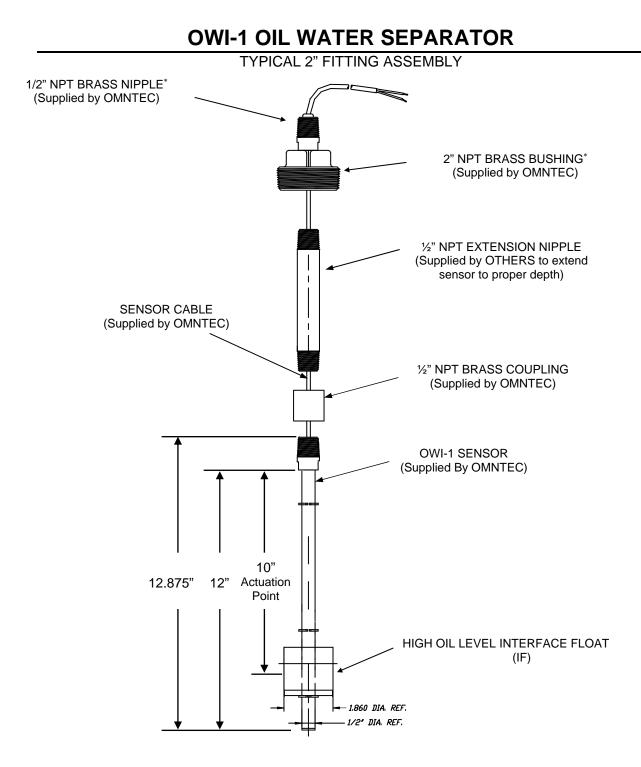
LU2-OWIR SYSTEM CONTROL DRAWING



RA-Series Remote High Level Alarm



OMNTEC Mfg., Inc., 1993 Pond Road, Ronkonkoma, NY 11779 Phone (631) 981-2001 Fax (631) 981-2007 www.OMNTEC.com File Name: LU2-OWIR rev1-0.doc Page 4 of 11 Rev: 1.0 Rev Date: 5-2-2013

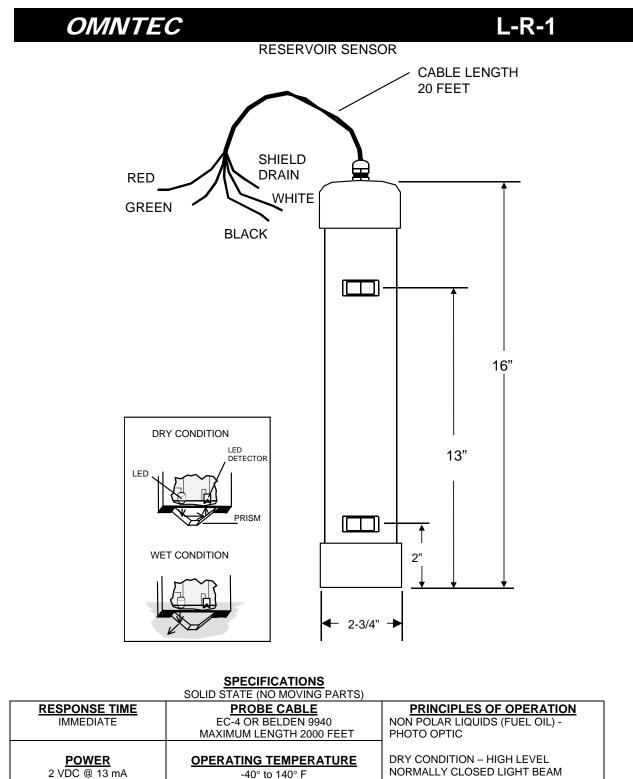


***WARNING-** It is the installer's responsibility to select a thread sealant that is compatible with the product being stored and that all NPT fittings are fastened properly to assure liquid tight seal for proper sensor operation.

TYPICAL MANWAY EXTENSION BRACKET INSTALLATION 3.00 ູ່ດໍ U-TYPE TUBE STRAP 1/2" NPT EXTENSION NIPPLE* CLEARANCE (Supplied by (Supplied by OTHERS to extend BLOCK OTHERS) sensor to proper depth) (Factory 6.00 Installed) SENSOR 18.00" CABLE 1/2" NPT BRASS COUPLING* (Supplied by (Supplied by OMNTEC) OMNTEC) MANWAY **EXTENSION OWI-1 SENSOR*** (Supplied by OMNTEC) 5.00" HIGH OIL LEVEL INTERFACE FLOAT (IF) .<u>860 DIA</u>, REF. 1.860 DIA, REF. 1/2" DIA. REF. 1/2" DIA. REF. SIDE VIEW FRONT VIEW

OWI-1 OIL WATER SEPARATOR

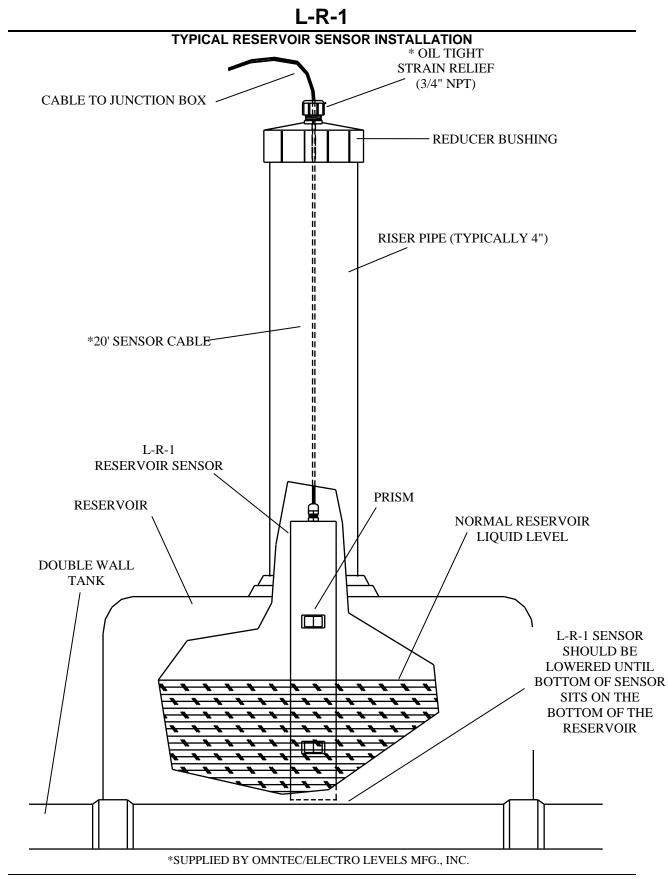
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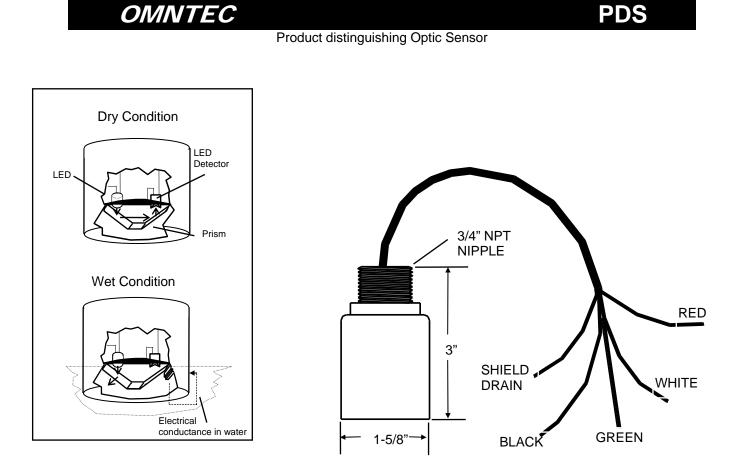


-40° to 140° F WEIGHT

2 POUNDS

NORMALLY CLOSED LIGHT BEAM ALARM CONDITION - CLOSED BEAM OF LIGHT OPENS (REFRACTS) NORMAL CONDITION-LOW LEVEL NORMALLY OPEN LIGHT BEAM ALARM CONDITION - OPEN BEAM OF LIGHT CLOSES





SPECIFICATIONS

Solid State (No moving parts)

U.L. LISTED 5L04

Intrinsically safe Class I, Group D Hazardous Locations when connected in accordance with Control Drawing nos. L1PD2, L2PD4, L3PD6

OPERATING TEMPERATURE

-40 TO +140 F

POWER 2 VDC @ 13 mA

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WEIGHT

1/2 pound

PRINCIPLES OF OPERATION

WATER DETECTION - conductance NON-POLAR LIQUIDS (ex: fuel) – 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

LOG SHEET

| DATE | NAME | SYSTEM STATUS | SIGNATURE |
|------|------|---------------|-----------|
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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.