



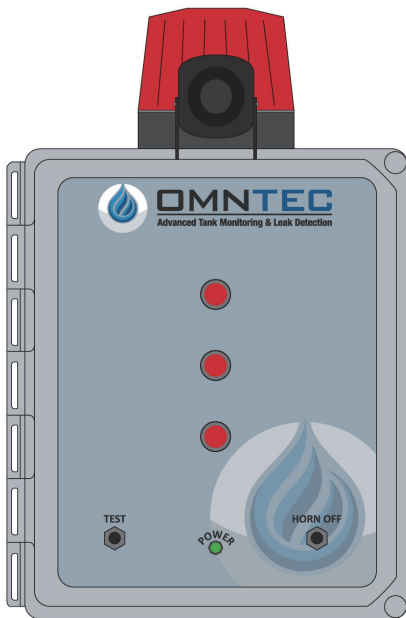
**OMNTEC**  
Advanced Tank Monitoring & Leak Detection



1. Open the camera app
2. Focus the camera on the QR code by gently tapping the code
3. Follow the instructions on the screen to view PDF file

# LU3-NYS

# INSTALLATION GUIDE



## THREE CHANNEL ALARM PANEL

Revision 2626

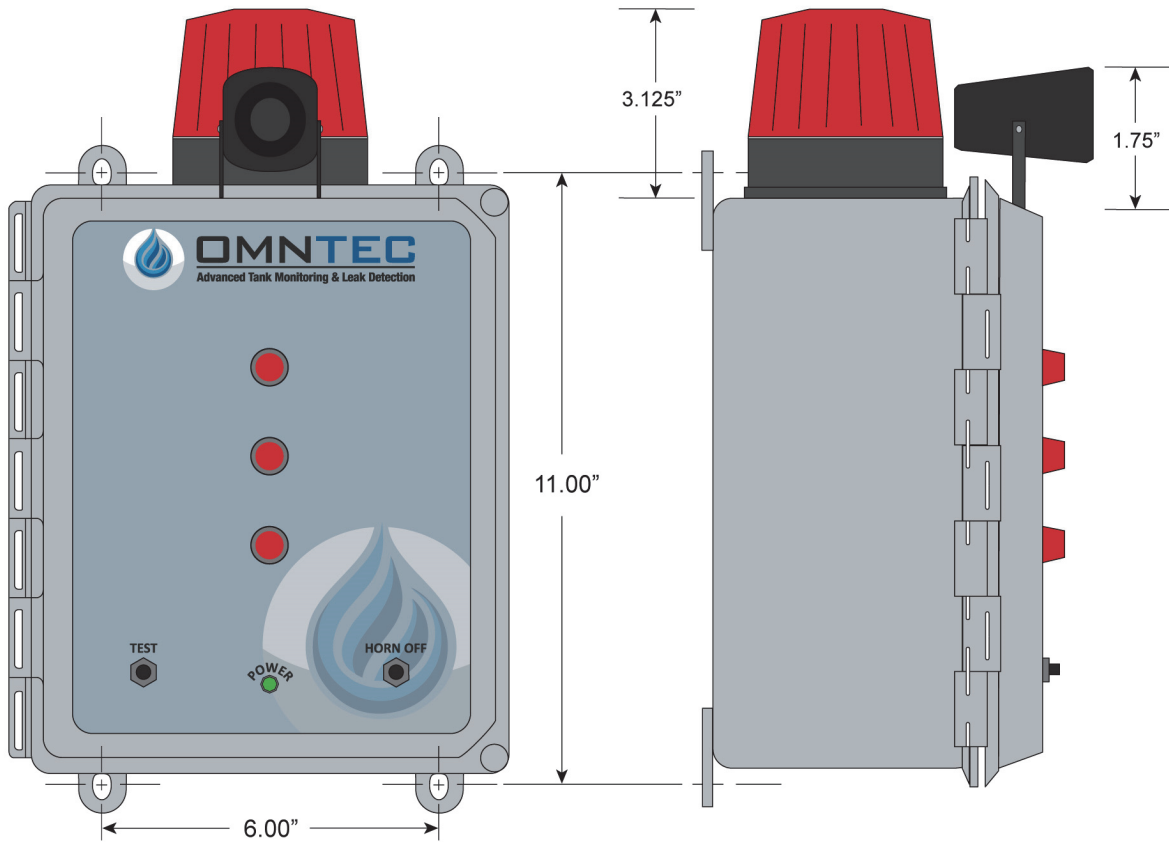
Document No. LU3-NYS

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**LU3-NYS**

**THREE CHANNEL ALARM PANEL**



**LU3-NYS SPECIFICATIONS**

**POWER INPUT**

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

**POWER TO SENSORS**

13.80 VDC @ 13 mA

**RELAY OUTPUT**

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

**WEIGHT**

6 LBS.

**DIMENSIONS**

(W) 9" x (H) 10.5"

**SENSOR CABLE**

Shielded 22 AWG UL-E118830 CM  
Maximum length 2000 feet

**ENCLOSURE**

NEMA 4X

**OPERATING TEMPERATURE**

-40° to 140° F

**AUDIO/VISUAL CONSOLE**

**AUDIBLE ALARM** - 110 dB multi-frequency horn with 30 second timeout

**RED LIGHT** - Indicates liquid alarm

**STROBE LIGHT** - Common alarm strobe for all alarm conditions

**TEST BUTTON** - When pressed will test system lights and horn

**GREEN LIGHT (POWER)** - Indicates the power is on

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

**SENSORS**

(2) L-1 High level sensor

(1) LS-ASC Liquid sensor

**OPTIONAL ACCESSORIES**

**RA-3** Audio/visual remote annunciator

**RLY-RA Series** Relay outputs

**LABELS**

Provided with controller

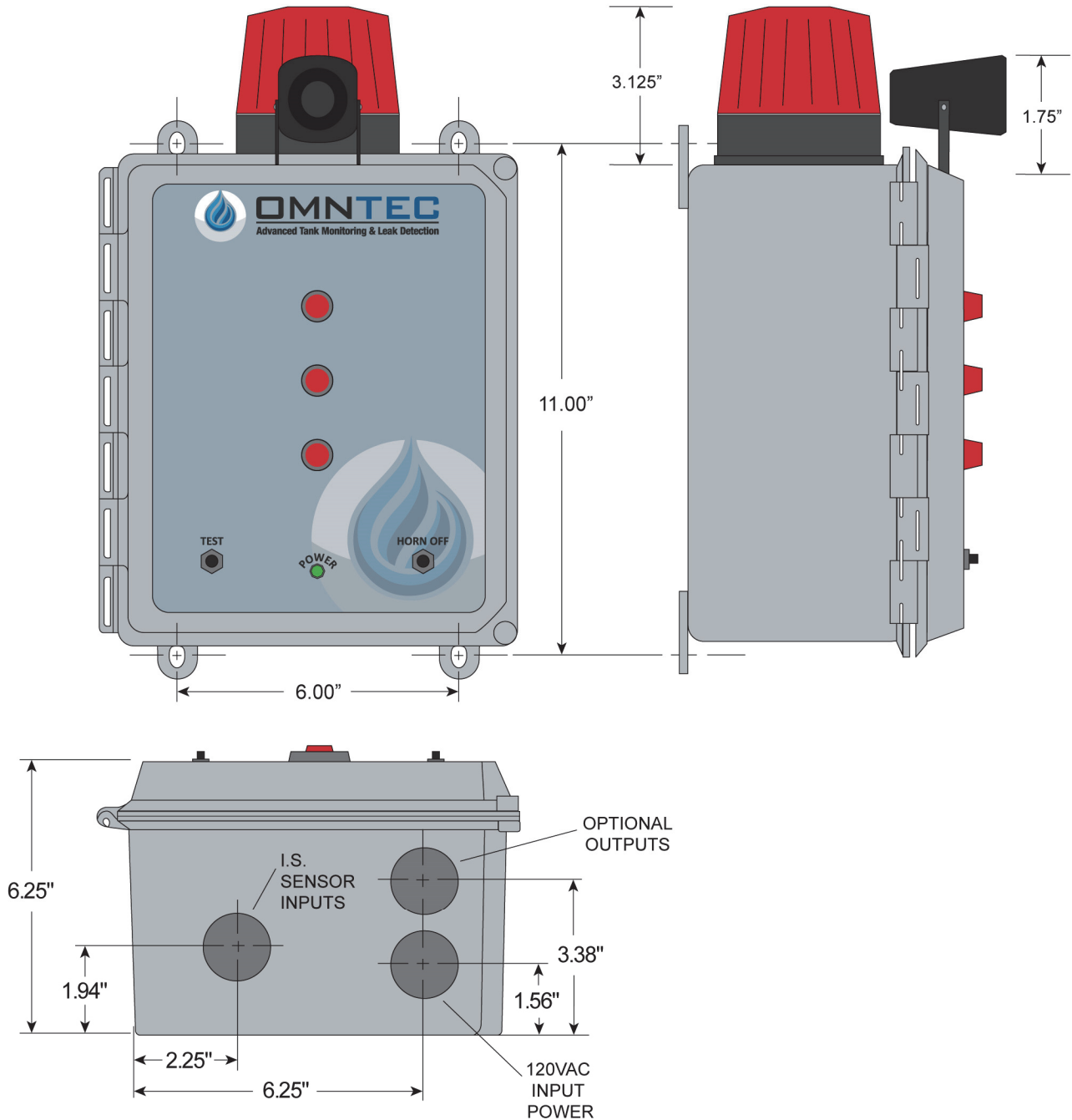


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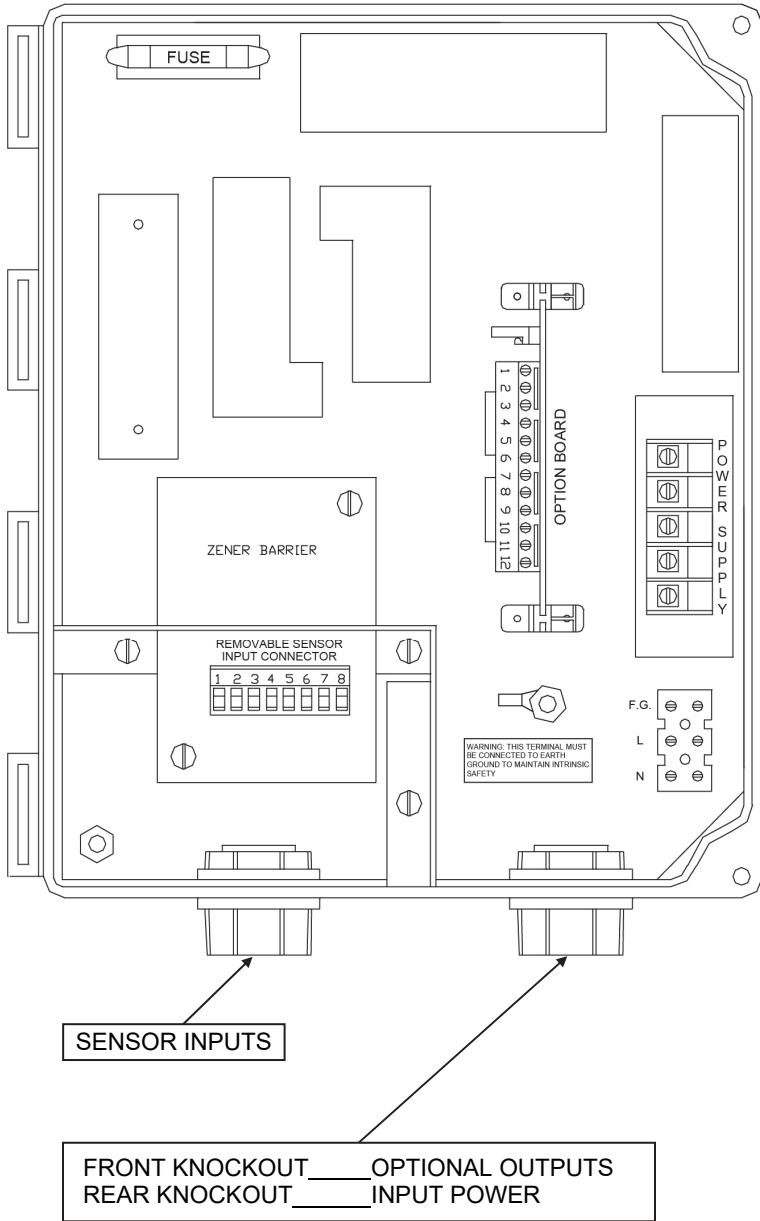
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## LU3-NYS

### DIMENSIONS FOR MOUNTING AND KNOCKOUTS



# LU3-NYS CONTROLLER CONNECTION DIAGRAM



## COLOR CODE

**CABLES FROM SENSORS TO REMOVABLE SENSOR INPUT CONNECTORS**

1	RED	SENSOR #1
2	WHITE	
3	RED	SENSOR #2
4	WHITE	
5	RED	SENSOR #3
6	WHITE	
7	BLACK, WHITE, BLUE	FROM SENSOR #1 - #3
8	SHIELD DRAIN	

## WIRES TO OPTION BOARD

**WIRES FROM RA-SERIES REMOTE**

1	GREEN	- HORN
2	RED	+ HORN
3	BLACK	GROUND
4	WHITE	SENSOR #1
5	ORANGE	SENSOR #2
6	BLUE	SENSOR #3

**WIRES FROM RELAY OUTPUTS**

7	COMMON	SENSOR #3
8	NORMALLY OPEN	
9	COMMON	SENSOR #2
10	NORMALLY OPEN	
11	COMMON	SENSOR #1
12	NORMALLY OPEN	

## POWER INPUT

**120VAC  
WIRES TO POWER SUPPLY**

F.G.	FIELD GROUND
L	LINE
N	NEUTRAL

SENSOR INPUTS

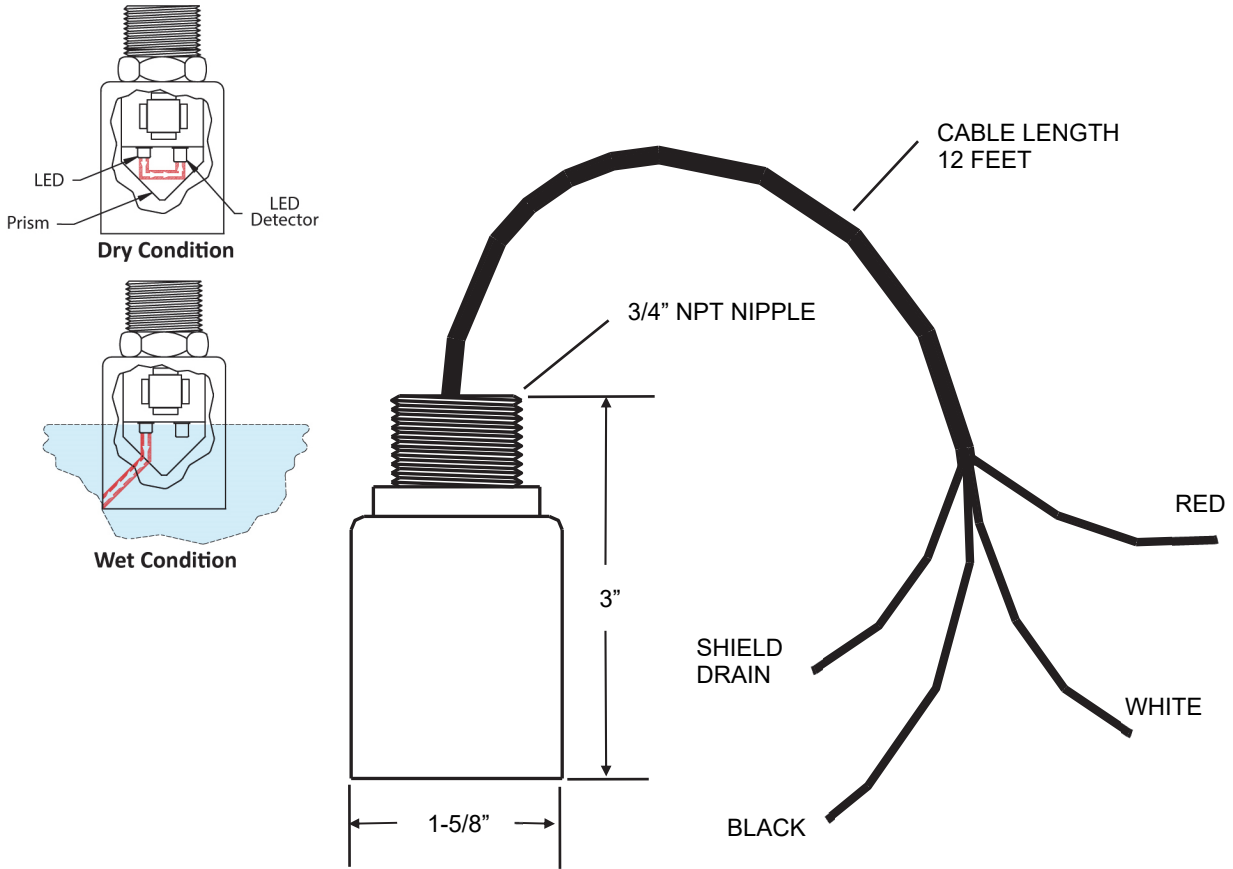
FRONT KNOCKOUT \_\_\_\_\_ OPTIONAL OUTPUTS  
REAR KNOCKOUT \_\_\_\_\_ INPUT POWER

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

**LS-ASC SENSOR**

**NON-PRODUCT DISTINGUISHING OPTIC SENSOR**

**PRINCIPLES OF OPERATION**



**LS-ASC 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 70° C

**POWER**

2 VDC @ 13 mA

**WEIGHT**

1/2 pound

**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

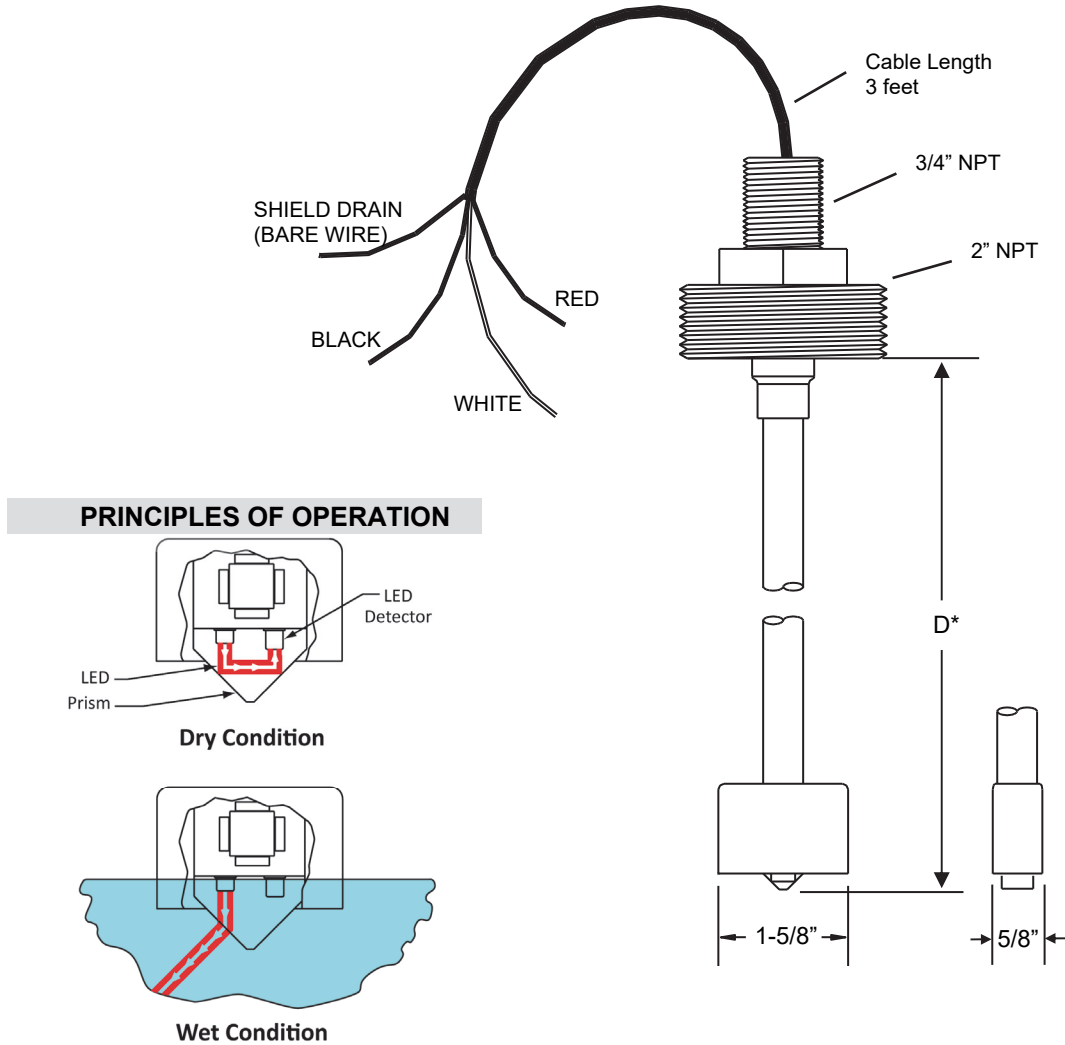


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## L-1 SENSOR

### LIQUID LEVEL OPTIC SENSOR



## 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 70° C

### 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**



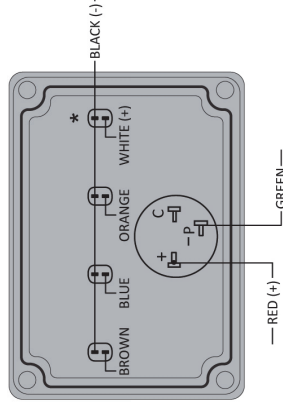
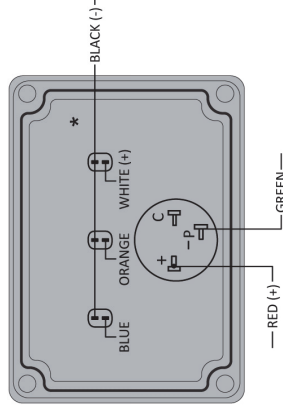
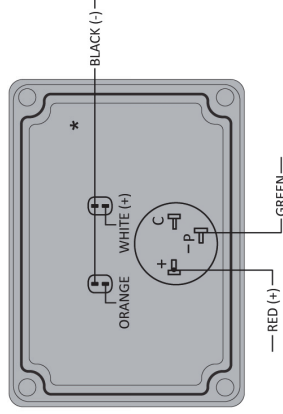
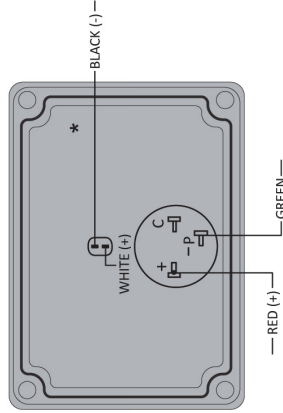
**RA-3**



**RA-4**

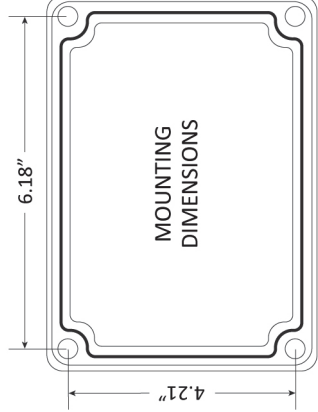
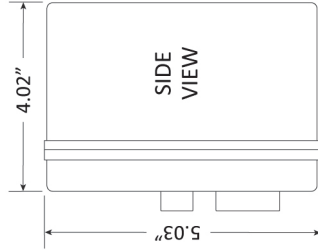


## INTERNAL WIRING COLOR CODE



\*Warning Label Placed Here

**WARNING: LOW VOLTAGE INPUTS ONLY**



### SPECIFICATIONS

<b>Audible Alarm</b>	95 dB pulsing horn
<b>Red Light</b>	Liquid-high-level alarm
<b>Response Time</b>	Immediate
<b>Power Input</b>	12VDC @200mA maximum from controller
<b>Wire</b>	22 AWG minimum
<b>Weight</b>	1 lb.

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



## WARRANTY

The seller OMNTEC® Mfg., Inc. warrants to buyer defects when properly installed, and maintained by user. The seller's 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 warranties 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 seller's sole obligation is to repair or replace parts found to be defective, or non-conforming for one year and only after evaluation by factory. Technical support must be contacted for a Return Material Authorization (RMA #) prior to sending any potentially defective parts. 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 warranties 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 seller's 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 warranties 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 and control systems.