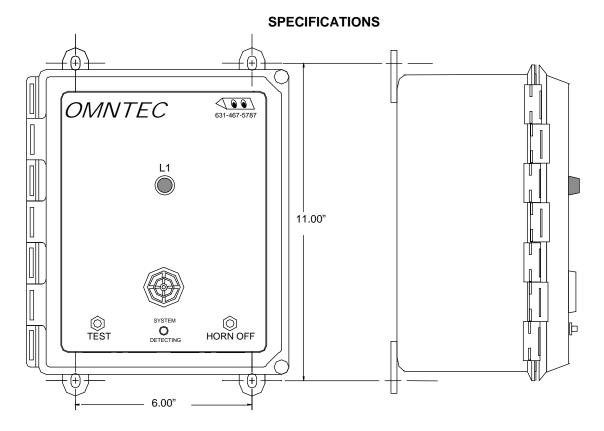
OMNTEC LU1-LF



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

RED LIGHT -Indicates liquid alarm for LF-series float

TEST BUTTON- When pressed will test system electronics GREEN LIGHT- indicates the power is on

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

SENSORS

LF-1 Single float liquid level sensor, normally closed

ACCESSORIES

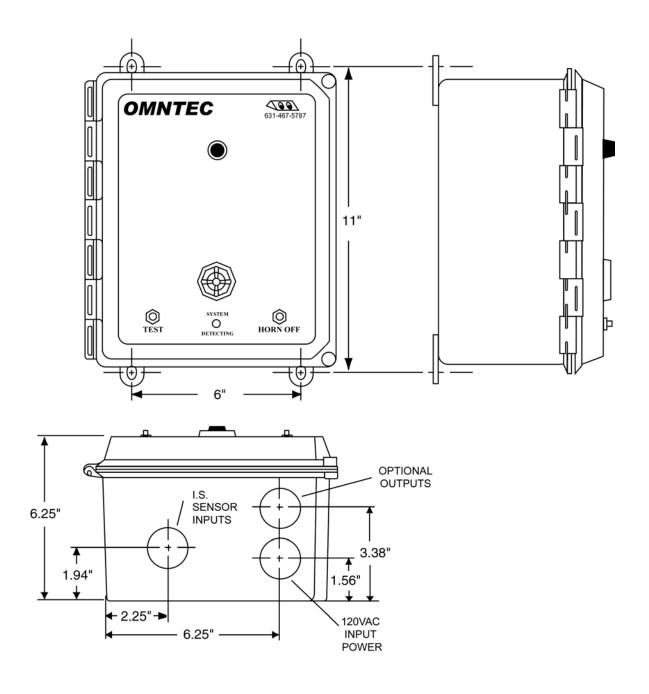
RA-1 audio/visual remote annunciator

LABELS

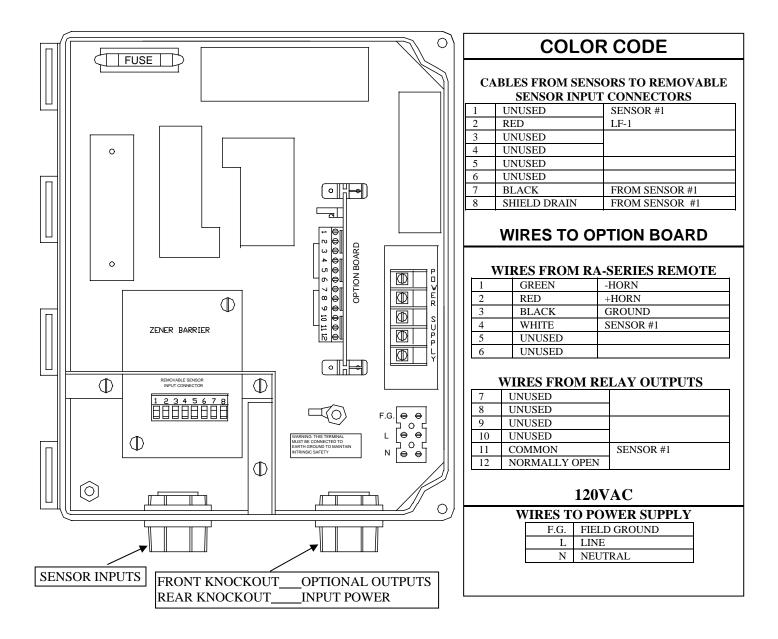
Provided with controller

OMNTEC LU1-LF

Dimensions for mounting and knockouts



LU1-LF CONTROLLER CONNECTION DIAGRAM



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

Liquid Level Float Sensors

- Stainless Steel or Brass Mountings
- 1 to 6 Actuation Levels
- Lengths to over 11 feet
- U.L. Recognized, CSA Listed

LF series float sensors have multiple options including material of construction, mountings and float sizes. This allows for the LF sensor to be extremely versatile in a wide range of applications such as water, oils, chemicals and corrosive liquid.

LF-* switches are U.L. Approved for Class I, Division 2, Groups A, B, C, D hazardous locations. FM Approved explosion proof junction box must be installed for Class I, Division I, Group D hazardous locations.

Specifications				
	BUNA N	Stainless Steel		
Operating Temperature	Water: to 180 F Oil: -40 F to +230 F	40 F to +300 F		
Stem & Mounting Material	Brass	316 Stainless Steel		
Max Length (Lo)	120" (305 cm)			
Float Stops*	Beryllium Copper	316 Stainless Steel		
Compatible Controllers	Consult factory			
Approvals	U.L. Recognized, CSA Listed			

Specifications subject to change without notice, verify with manufacturer.

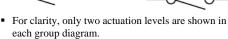


Group 1 Switch (N.O. or N.C.): SPST: 50 VA

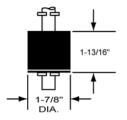


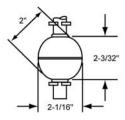
Switch (N.O. or N.C.):
SPST: 50 VA

Group 2



Standard setup is Group 2 unless otherwise specified.





BUNA N Float

Stainless Steel Float

Consult factory for materials other than stainless steel and $\mbox{\sc BUNA}$ N.

OMNTEC

LF Series Sensor

Switch actuation levels are determined following the guidelines below:

All units 72" or less overall unit length with Stainless Steel or Buna N floats.

A = 1-1/2" (38.1mm) minimum distance to highest level (2" (50.8mm), Type 5 only)

 $\mathbf{B} = 2$ " (50.8mm) minimum distance from end of unit to lowest level

C = 3" (76.2mm) minimum distance between levels

 $\mathbf{D} = 1/4$ " (6.3mm) minimum distance between actuation levels (Note: One float for two levels can be used only when low level is N.C. dry and high level is N.O. dry) * Actuation level distances and L₀ (overall unit length) are measured from inner surfaces of mounting plug or flange

** Length Overall $L_0 = L_1 + Dimension B$. See mounting Types for Maximum Length values

Notes:

- 1. A, B and C dimensions based on a liquid specific gravity of 1.0
- 2. One float for two levels can be used only when 20VA switch is used
- 3. Actuation levels are calibrated on descending fluid level, with water as the calibrating fluid, unless otherwise specified
- 4. Tolerance on actuation levels is +/- 1/8" (3.2mm)

Actuation Levels 2" NPT Brass L6 unless otherwise specified L5 I F-* (supplied by OMNTEC) **BUNA N Floats** L3 L2 L1

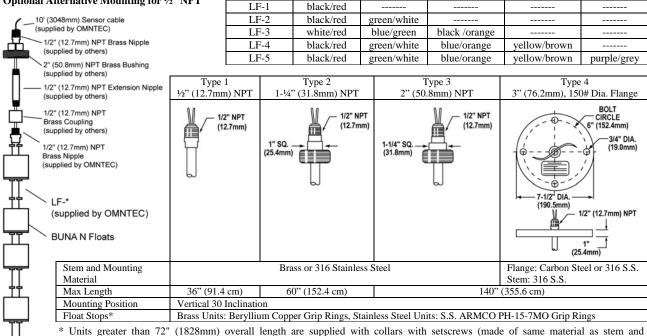
Level 3

Level 4

Level 5

Optional Alternative Mounting for 1/2" NPT

Consult factory for details.



Level 1

Level 2

Wiring Color Code Wiring

OMNTEC Mfg., Inc., 1993 Pond Road, Ronkonkoma, NY 11779 Phone (631) 981-2001 Fax (631) 981-2007 www.OMNTEC.com File Name: LU1-LF-rev1-0.doc Page 5 of 8 Rev: 1.0 Rev Date: 3-2-2012

corrosive compounds in the media require the use of collar type float stops.

mounting) in place of float-stop rings. Collars are optional on units less than 72" (1828mm) overall length. Units requiring 316 SS float stops must be special ordered with 316 SS collars instead of grip rings. In some instances the use of concentration of chlorine and other

RA-Series Remote High Level Alarm

RA-1



RA-2



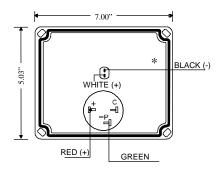
RA-3

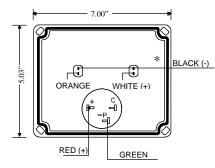


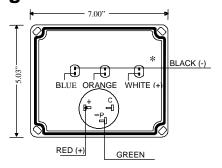
RA-4

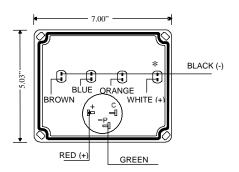


Internal Wiring Color Code









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

SPECIFICATIONS

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

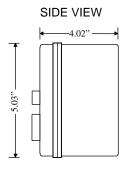
Response Time Immediate

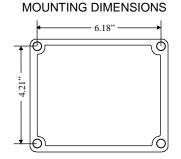
Power Input 12VDC @200mA maximum

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.