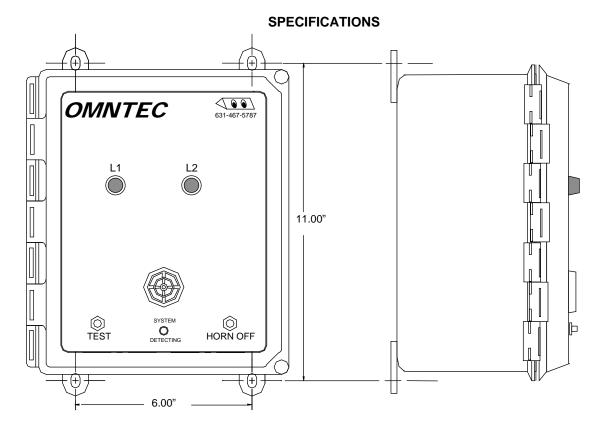
OMNTEC LU2-LF



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 sensor

TEST BUTTON- When pressed will test system electronics

GREEN LIGHT- indicates the power is on

HORN OFF BUTTON - Silences the audible alarm when pressed

SENSORS

LF-1 SINGLE FLOAT LIQUID LEVEL SENSOR, NORMALLY CLOSED

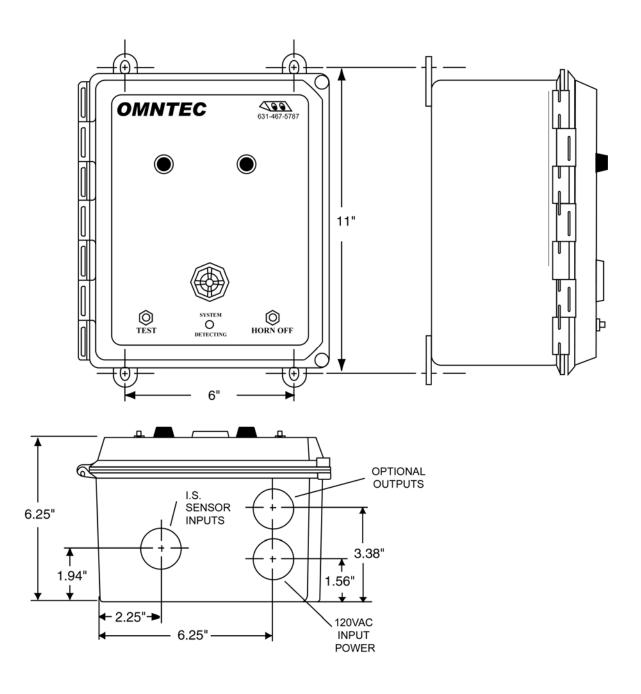
ACCESSORIES

RA-1 audio/visual remote annunciator AND RLY-RA2 **LABELS**

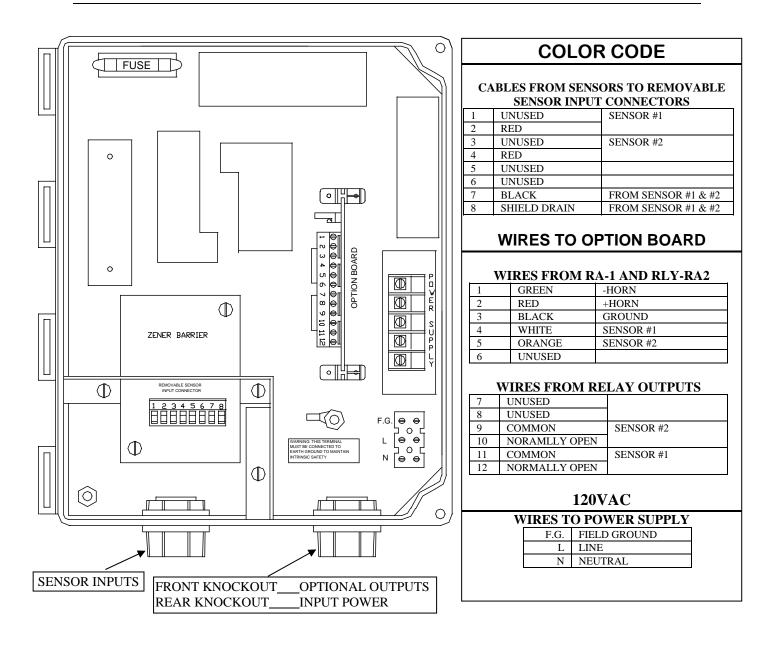
Provided with controller

OMNTEC LU2-LF

Dimensions for mounting and knockouts



LU2-LF CONTROLLER CONNECTION DIAGRAM



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

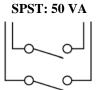
Specifications subject to change without notice, verify with manufacturer.

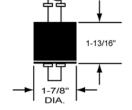


Group 1 Switch (N.O. or N.C.):

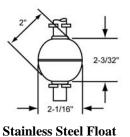


Group 2 Switch (N.O. or N.C.): SPST: 50 VA





BUNA N Float



 For clarity, only two actuation levels are shown in each group diagram.

Standard setup is Group 2 unless otherwise specified.

Consult factory for materials other than stainless steel and 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

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

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 unless otherwise specified LF-* (supplied by OMNTEC) BUNA N Floats L1 L1

Optional Alternative Mounting for 1/2" NPT

Consult factory for details.

Optional Alternative Mounting for ½" NP		LF-1		black/red				
10' (3048mm) Sensor cable (supplied by OMNTEC)		LF-2		black/red	green/white			
		LF-3		white/red	blue/green	black /orange		
1/2" (12.7mm) NPT Brass Nipple (supplied by others)	1/2" (12.7mm) NPT Brass Nipple		7-4	black/red	green/white	blue/orange	yellow/brown	
2" (50.8mm) NPT Brass Bushing		LF-5		black/red	green/white	blue/orange	yellow/brown	purple/grey
(supplied by others)	•			•		•	*	•
—— 1/2" (12.7mm) NPT Extension Nipple		Type 1		Type 2	Type 3		Type 4	
(supplied by others)	½" (12.7mm	m) NPT 1		" (31.8mm) NPT	2" (50.8mm) NPT		3" (76.2mm), 150# Dia. Flange	
1/2" (12.7mm) NPT Brass Coupling (supplied by others)		" NPT .7mm)		1/2" NF (12.7m)		1/2" NPT (12.7mm)	0-1	BOLT CIRCLE 6" (152.4mm)
1/2" (12.7mm) NPT Brass Nipple (supplied by OMNTEC)			1" SQ. (25.4mm)		1-1/4" SQ. ———————————————————————————————————			3/4" DIA. (19.0mm)
LF-* (supplied by OMNTEC) BUNA N Floats							7-1/2" DIA.— (190.5mm)	1/2" (12.7mm) NPT
Stem and Mounting Material	Brass or 316 Stainless Steel Flange: Carbon Steel or 316 S.S. Stem: 316 S.S.					eel or 316 S.S.		
Max Length	36" (91.4 cm) 60" (152.4 cm) 140" (355.6 cm)							
Mounting Position	Vertical 30 Inclination							
Float Stops*	Brass Units: Beryllium Copper Grip Rings, Stainless Steel Units: S.S. ARMCO PH-15-7MO Grip Rings							
* Units greater than 72" (1828mm) overall length are supplied with collars with setscrews (made of same material as stem and								

Level 1

Level 2

Level 3

Level 4

Level 5

Wiring

OMNTEC Mfg., Inc., 1993 Pond Road, Ronkonkoma, NY 11779 Phone (631) 981-2001 Fax (631) 981-2007 www.OMNTEC.com File Name: LU2-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.

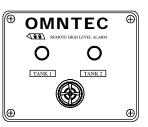
mounting) in place of float-stop rings. Collars are optional on units less than 72" (1828mm) overall length. Units requiring 316 SS float stops must be special ordered with 316 SS collars instead of grip rings. In some instances the use of concentration of chlorine and other

RA-Series Remote High Level Alarm

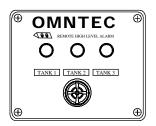
RA-1



RA-2



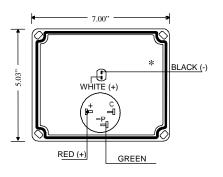
RA-3

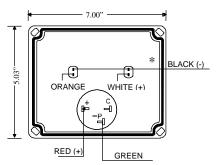


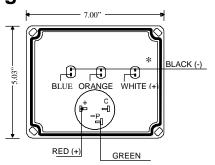
RA-4

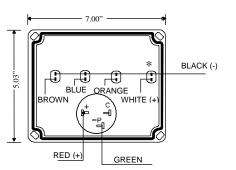


Internal Wiring Color Code









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

SPECIFICATIONS

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

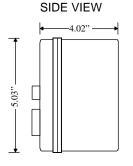
Response Time Immediate

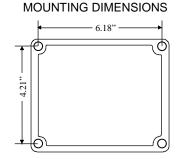
Power Input 12VDC @200mA maximum

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.