



# OMNTEC

Advanced Tank Monitoring & Leak Detection

## LIQUID LEVEL FLOAT SENSOR LF SERIES

### FEATURES

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

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.

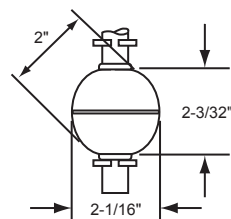
LF-\* switches are U.L. Approved for Class I, Division 2, Groups A, B, C, D hazardous locations. FM Approved explosion proof junction box must be installed for Class I, Division I, Group D hazardous locations.



### VERSATILE FOR A RANGE OF APPLICATIONS

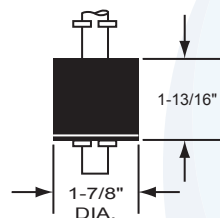
#### SPECIFICATIONS

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



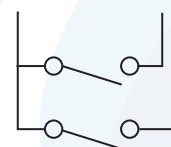
**Stainless Steel Float**

Consult factory for materials other than stainless steel and BUNA N.

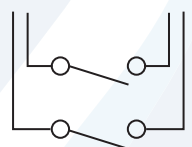


**BUNA N Float**

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



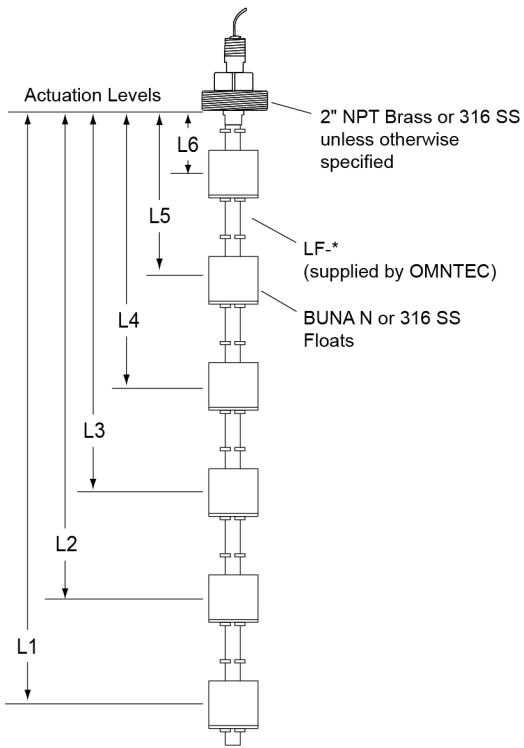
**Group 2**  
Switch (N.O. or N.C.):  
SPST: 50 VA



- For clarity, only two actuation levels are shown in each group diagram
- Standard setup is Group 2 unless otherwise specified.

# LIQUID LEVEL FLOAT SENSOR

## LF SERIES



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)
- 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)

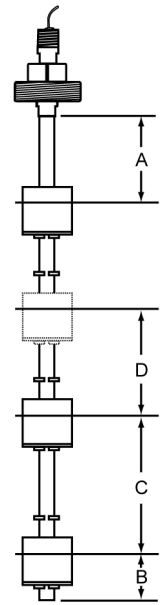
\* Actuation level distances and  $L_0$  (overall unit length) are measured from inner surfaces of mounting plug or flange.

\*\* Length Overall  $L_0 = L_1 + \text{Dimension B}$ .

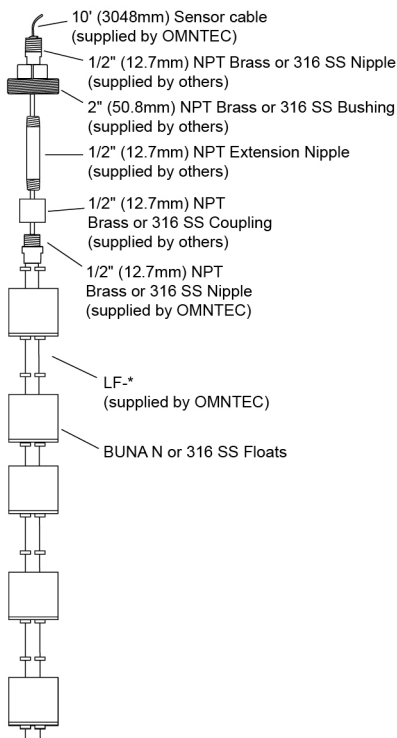
See mounting Types for Maximum Length values.

### Notes:

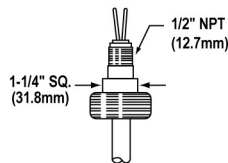
1. A, B and C dimensions based on a liquid specific gravity of 1.0.
2. One float for two levels can be used only when 20VA switch is used.
3. Actuation levels are calibrated on descending fluid level, with water as the calibrating fluid, unless otherwise specified.
4. Tolerance on actuation levels is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



### Optional Alternative Mounting for 1/2" NPT



### 2" (50.8mm) NPT



Stem & Mounting Material	Brass or 316 Stainless Steel
Max Length	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 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 corrosive compounds in the media require the use of collar type float stops. Consult factory for details.

