

## Small Size – Engineered Plastics

### LS-300TFE Series – All-PTFE Wetted Parts for Ultra-Pure Fluids

- ▶ Low Particle Generation-One piece Molded Design
- ▶ Corrosion Resistant
- ▶ 1 to 4 Actuation Levels in a Single Unit
- ▶ Lengths to 24 Inches

#### Typical Applications

- Semiconductor Process Equipment
- Pure Chemical Delivery System
- Wafer Cleaning and Etching Systems
- Cabinet Leak Sensing

#### 1. Mounting Types

Each mounting type can be configured with stem lengths ( $L_0$ ) and float materials indicated in this bulletin.

Type 11, No Mounting	Type 22, 1" NPT	Type 24, 1/4" NPT	Type 25, 3/8" NPT

#### 2. Electrical Connections

Type 1 Leadwire	Type 2 Cable	Type 3* Liquid-Tight Cable
<b>Extended Leads</b>	#22 AWG Teflon• Wire or #24 AWG PVC Jacketed Cable	

\* Available on Mounting Type 22 only.

#### 3. Float Types

Float Material	PTFE	PVDF
<b>Float Dimensions</b>		
<b>Operating Temperature</b>	+32°F to +212°F (0°C to 100°C)	-40°F to +250°F (-40°C to 121°C)
<b>Pressure, PSIG (bar), Max. at Ambient Temperature</b>	25 (1.7)	50 (3.4)
<b>Min. Liquid Specific Gravity</b>	0.90	0.86

Note: A single float type is selected for use at all actuation points.



**ORDER IT!**  
Ordering is Easy! See Page B-9.  
Easy online ordering too!

### 4. Electrical Specifications

Typically, one float is required for each point at which you need a switch action to occur. The number of actuation levels available depends on the Group Type Wiring selected; see below.

**Group I Wiring:** 1 to 4 Actuation Levels.

**Group II Wiring:** 1 or 2 Actuation Levels.

**Switch (SPST, N.O. or N.C.):** 10/20/50/100VA.

Notes:

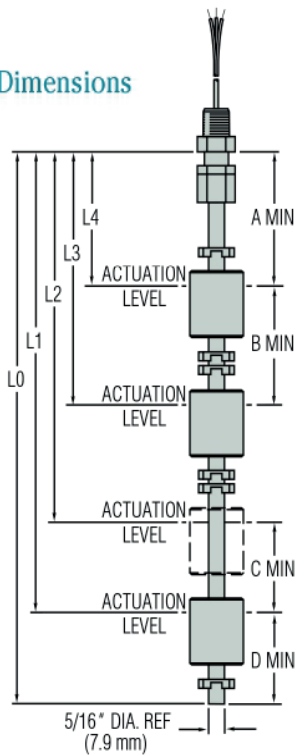
1. Other wiring options available. Consult factory.
2. Consult Factory for load information.

Electrical Connection	Group 1	Group 2
<b>Lead Wire (*)</b>		
<b>Cable (*)</b>		

\*Pin correlation of plug connectors shown in parenthesis.

### 5. Actuation Level Dimensions

- \* Actuation level distances and  $L_0$  (overall unit length) are measured from inner surface of mounting. See mounting types on opposite page for  $L_1$  reference point.
- \*\* Length Overall ( $L_0$ ) =  $L_1$  + Dimension D.  $L_{0max.} = 24"$ .



Switch actuation levels are determined following the guidelines below.

A = Minimum distance from highest actuation level to bottom of mounting.

B = Minimum distance between actuation levels.

C = Minimum distance between two actuation levels with one float (Note: One float for two levels can be used only when low level is N.C. dry and high level is N.O. dry).

D = Minimum distance from end of unit to lowest level.

Float Material	Dimensions			
	A	B	C	D
PTFE	$\frac{1-3/4}{44.5^*}$	$\frac{2}{50.8}$	$\frac{1/8}{3.2}$	$\frac{1-5/8}{41.3}$
PVDF	$\frac{1-3/4}{44.5^*}$	$\frac{2}{50.8}$	$\frac{1/8}{3.2}$	$\frac{1-7/16}{36.5}$

inch  
mm

\*Mounting Type 22 (1" NPT) requires a minimum "A" dim. of 2-1/16" (52.4mm)

LEVEL SWITCHES – MULTI POINT