

Large Size – Engineered Plastics

LSP-800 Series – Features Inert Materials for Corrosive Liquids

- ▶ All-Plastic Wetted Parts - PVC or Polypropylene
- ▶ 1 to 6 Actuation Levels
- ▶ Lengths to 70 inches

Specifically designed for corrosive liquids and vapors. Three standard model types in a choice of materials offer broad chemical compatibility.

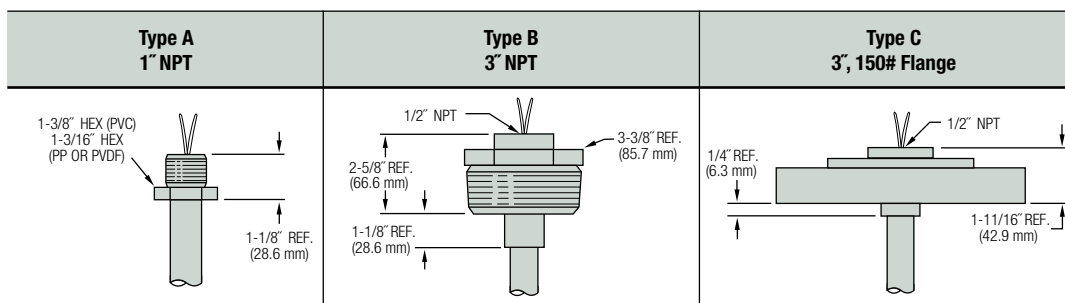
1. Mounting Types

Each mounting type can be configured with stem lengths (L_0) and materials indicated in the table below. Floats and float stop collars are of same material specified for mounting.



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Stem, Mounting, Float and Collar Material	PVC or Polypropylene
Max. Length (L_0)	70 inches (177.8 cm)
Mounting Position	Vertical $\pm 30^\circ$ Inclination

2. Float Types

Float Material	PVC	Polypropylene
Float Dimensions		
Operating Temperature and Pressure	See Ratings Chart at top of following page	
Min. Liquid Specific Gravity	0.60	0.40

Note: Floats are always supplied in same material as specified for mounting.

LEVEL SWITCHES – MULTI POINT

LSP-800 Series – Continued

Temperature and Pressure Ratings Chart

Maximum Pressure vs. Temperature

LSP-800 Material	Operating Temperature							
	0°F (-17.7°C)	70°F (21.1°C)	100°F (37.7°C)	125°F (51.7°C)	140°F (60.0°C)	170°F (76.6°C)	200°F (93.3°C)	210°F (98.8°C)
PVC	50 PSI (3.4 bar)	50 PSI (3.4 bar)	35 PSI (2.4 bar)	20 PSI (1.4 bar)	10 PSI (0.68 bar)	X	X	X
Polypropylene	50 PSI (3.4 bar)	50 PSI (3.4 bar)	40 PSI (2.7 bar)	35 PSI (2.4 bar)	30 PSI (2.0 bar)	25 PSI (1.7 bar)	X	X

3. Electrical Specifications

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

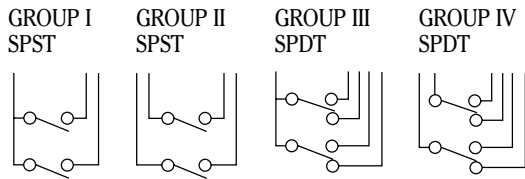
SPST: 20 VA or 100 VA

SPDT: 20 VA

Lead Wires: #22 AWG, 24" L., Polymeric

Typical Wiring Diagrams

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

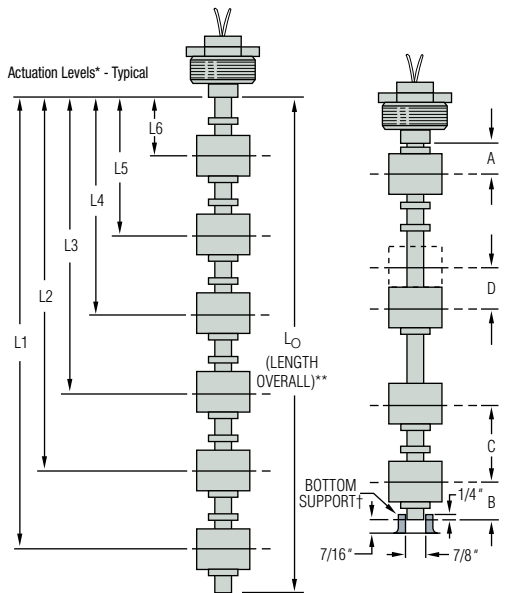


Wiring Color Code

Wiring	SPST Switches			SPDT Switches 20 VA				
	Group I	Group II		Group III		Group IV		
Com. Wire	Black	None		Black		None		
	NO/NC	SW. Com.	NO/NC	NO	NC	SW. Com.	NO	NC
L1	Red	Red	Red	Red	Wh/Red	Red	Wh/Red	Wh/Blk/Red
L2	Yellow	Yellow	Yellow	Yellow	Wh/Yel	Yellow	Wh/Yel	Wh/Blk/Yel
L3	Blue	Blue	Blue	Blue	Wh/Blue	Blue	Wh/Blu	Wh/Blk/Blu
L4	Brown	Brown	Brown	Brown	Wh/Brn	Brown	Wh/Brn	Wh/Blk/Brn
L5	Orange	Orange	Orange	Orange	Wh/Orn	Orange	Wh/Orn	Wh/Blk/Orn
L6	Gray	Gray	Gray	Gray	Wh/Gra	Gray	Wh/Gra	Wh/Blk/Gra

Notes: See "Electrical Data" on Page X-5 for more information.

4. Actuation Level Dimensions



Switch actuation levels are determined following the guidelines below.

A = 2-1/16" (52.4 mm) ±1/16" minimum distance to centerline of float (ref. mounting).

B = 2-11/16" (68.3 mm) ±1/16" minimum distance to centerline of float (ref. stem end).

C = 3-1/2" (88.9 mm) minimum distance between actuation levels.

D = Distance between actuation levels using one float.

Minimum = 1/4" (6.3 mm)

Maximum = 3-1/2" (88.9 mm)

Notes:

- The centerline of the float is used as a standard reference for actuating the switches.
- All levels are set on descending float travel with overtravel = 1/4" (6.3mm) ±1/8" (3.2mm).
Overtravel on Ascending = 1/8" (3.2mm) min.
- Tolerance on all actuation levels is ±1/8" (3.2 mm) Ref.

* Actuation level distances and L₀ (overall unit length) are measured from inner surfaces of mounting plug or flange.

** Length Overall L₀ = L₁ + Dimension B. See Mounting Types for Maximum Length values.

† Bottom support recommended for units longer than 36 inches, or in applications having turbulent conditions.