

Large Size – Engineered Plastics

LS-800PVC Series – Our Most Economical Large Size Unit

- ▶ NSF Approved All-PVC Wetted Parts Available
- ▶ 1 to 7 Actuation Levels
- ▶ Lengths to 60 inches


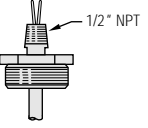
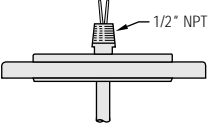
Inexpensive, all-PVC LS-800PVC Series switches bring reliable level sensing to corrosive liquids. These durable, yet economical, switches use the same high-quality, dependable reed switches found in GEMS' most expensive models. NSF-approved wetted parts make the LS-800PVC suitable for potable water applications.

ORDER IT!
It's Easy With Step-by-Step Check Lists. See Page A-24.

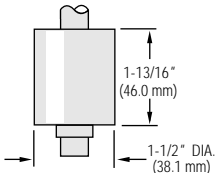
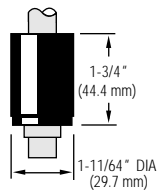


LEVEL SWITCHES

1. Mounting Types

	Type 1 1/2" NPT	Type 3 2" NPT	Type 4 3", 150# Flange
			
Mounting and All Wetted Parts	PVC		
Operating Temperature	0°F to 125°F (-17.8°C to 51.7°C)		
Pressure, PSI, Max.	15 @ 70°F (21.1°C)		
Max. Length (Lo)	60 inches (152.4cm)		
Mounting Position	Vertical ±30° Inclination		

2. Float Type

Float Material	PVC*	Buna N
Float Dimensions		
Float Part Number	16306	142251
Min. Liquid Specific Gravity	.80	.75

* Select for potable water applications.

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860-747-4244

Photocopy This Form

Use one form for each product type you are selecting.

Page# _____ Name _____

The OrderIt! Order Sheet (Z-4) must accompany this Check List. The Order Sheet is not required for quotes.

Company _____

Street _____

City _____ State _____ Zip _____

Phone (____) _____ Fax (____) _____

This is a Request for a Quote Order P.O.# _____

Quantity Needed _____ Date Required ____/____/____

Shipping Method: _____ Partial Accepted: Yes No

LS-800 Types Custom Length Float Type Level Switches (Pages A-34 to A-40)

Application Environmental Conditions

This information is essential to the accurate and proper operation of your GEMS configurable sensors. Please complete fully and accurately.

1. **Liquid Media:** _____
2. **Pressure:** Minimum _____ psig Maximum _____ psig
3. **Temperature:** Minimum _____ °F Maximum _____ °F
4. **Specific Gravity:** Minimum _____ Maximum _____

5. **Viscosity:** _____ SSU
6. **Tank Material:** _____
Tank Depth: _____
7. **Unit is Mounted In:** Tank Top Tank Bottom

1. Series (Page No.):

- LS-800PVC (A-34) LSP-800 (A-36) LS-800 (A-38)
 LS-800-A (A-41) See product page number for available mounting type and materials.

2. Mounting Type:

- Type A Type B Type C Type 4
 Type 1 Type 2 Type 3

3. Mounting and Stem Material (if choice available):

- Brass Polypropylene
 PVC PVDF
 316 Stainless Steel Carbon Steel (Flanges Only, in association with stainless steel stems.)

4. Mounting Position:

- Tank Top Tank Bottom

5. Float Part Number: _____

Matching floats will be used at each actuation level specified.

6. Switch Type and Rating:

- A. Group I Group II
 Group III Group IV
- B. SPST SPDT (20 VA only)
- C. 20 VA 100 VA

7. Switch Actuation Level

Actuation Level	Distance to Actuation Level – Inches*	SPST Switch Operation** (Check Type)	
		N.O.	N.C.
L6			
L5			
L4			
L3			
L2			
L1***			

* Measured from inner surface of mounting plug or flange.
** Switch position is "normal" with unit dry (tank empty).
*** L1 is the distance to the lowest actuation level with mounting "up," and is the distance to the highest actuation level with mounting "down."

- B. Length Overall _____ inches (Customer supplied support bracket assembly recommended for lengths over 72".)

8. Lead Wire Length:

- 12" 24" Other: _____ inches.

Options:

- Temperature Switch: _____ °F Temperature Setting;
On rising temperature, switch...
 Opens Closes
- Slosh Shield Collars
- J-Box Electrical Connection:
 Explosion Proof Type Explosion Proof/CSA Type
 NEMA 4 Type Plastic ABS Type

Please contact GEMS Sensors Inc. for any configuration or special requirements not covered on this form. **800-321-6070**

Quote \$ _____ Date Quoted ____/____/____

Additional minimum charges may apply on special orders.



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CUSTOM LENGTH FLOAT TYPE LEVEL SWITCHES

ORDER IT!

LS-800PVC Series - Continued

3. Number of Actuation Levels and 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 type of wiring selected. See below.

Group I Wiring: 1 to 7 Actuation Levels

Group II Wiring: 1 to 4 Actuation Levels

Group III Wiring: 1 to 3 Actuation Levels

Group IV Wiring: 1 to 2 Actuation Levels

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

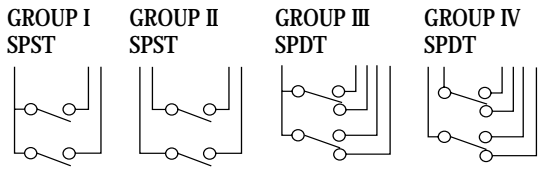
SPST: 20 VA or 100 VA

SPDT: 20 VA

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

Typical Wiring Diagrams

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

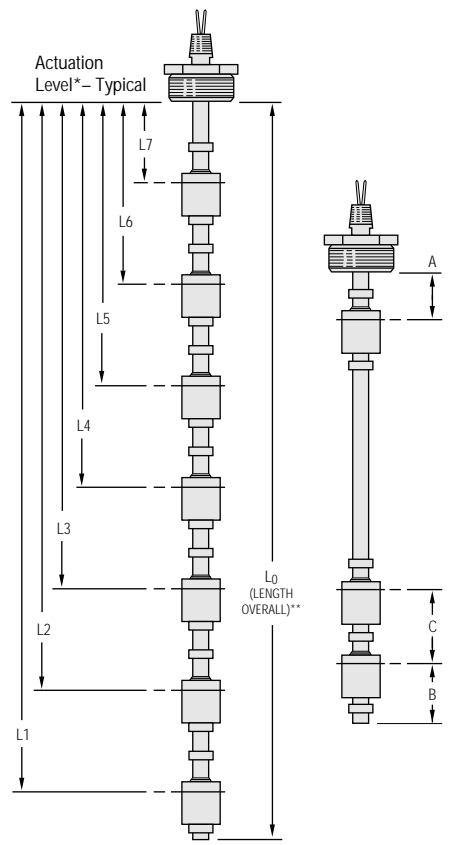


Wiring Color Code

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			
L4	Brown	Brown	Brown					
L5	Orange							
L6	Gray							
L7	White							

Notes: See "Electrical Data" on Page A-4 for more information.

4. Actuation Level Dimensions



Switch actuation levels are determined following the guidelines below.

- A = 1-1/2" (38.1 mm) Minimum distance to highest actuation level.
- B = 2" (50.8 mm) Minimum distance from end of unit to lowest actuation level.
- C = 3" (76.2 mm) Minimum distance between actuation levels.

- Notes:
1. Actuation levels are calibrated on descending fluid level, with water as the calibrating fluid, unless otherwise specified.
 2. A and B dimensions based on a top mounted unit.
 3. Float stops are permanently cemented in place.
 4. Tolerance on actuation levels is $\pm 1/8"$ (3.2 mm).
 5. Dimensions based on a liquid specific gravity 1.0.

* 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 + Dimension B. See Mounting Types for Maximum Length values.