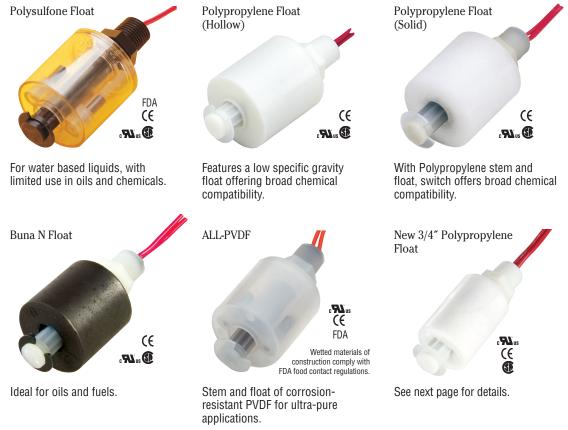


Small Size – Engineered Plastics

LS-3 Series – Offers High Reliability, Compact Size and Low Costs in NPT, Straight and Metric Threads

Ideal for shallow tanks or restricted spaces, or for any low-cost, high volume use. LS-3 Series are available in FDA compliant materials, consult GEMS for details.



Common Specifications

Approvals: U.L. Recognized - File No. E45168; CSA Listed - File No. 30200. CE Declaration Available Upon Request. NSF materials are Standard 61 compliant. For NSF approved level switches contact Gems.

Switch SPST: 20 VA, 120-240 VAC. Units are shipped N.O. unless otherwise specified. Selectable, N.O. or N.C., by inverting float on unit stem.

$\frac{1}{12^{2} \text{ HEX}} + L_{1} = \text{Actuation Level} \text{ (see chart below)}$ $\frac{2 \cdot 3^{3} 2^{2^{-}} (13.4 \text{ mm})}{1^{2^{-}} (13.4 \text{ mm})} + L_{1} = \text{Actuation Level} \text{ (see chart below)}$ $\frac{2 \cdot 3^{3} 2^{2^{-}} (13.4 \text{ mm})}{1^{2^{-}} (13.4 \text{ mm})} + L_{1} = \text{Actuation Level} \text{ (see chart below)}$ $\frac{1 \cdot 9^{1} 6^{-^{-}} (12^{-} \text{ mm})}{1^{2^{-}} (12^{-} \text{ mm})} + L_{1} = \text{Actuation Level} \text{ (see chart below)}$ $\frac{1 \cdot 9^{1} 6^{-^{-}} (12^{-} \text{ mm})}{1^{2^{-}} (12^{-} \text{ mm})} + L_{1} = \text{Actuation Level} \text{ (see chart below)}$ $\frac{1 \cdot 9^{1} 6^{-^{-}} (12^{-} \text{ mm})}{1^{2^{-}} (12^{-} \text{ mm})} + L_{1} = \text{Actuation Level} \text{ (see chart below)}$ $\frac{1 \cdot 9^{1} 6^{-^{-}} (12^{-} \text{ mm})}{1^{-^{-}} (12^{-} \text{ mm})} + L_{1} = \text{Actuation Level} \text{ (see chart below)}$ $\frac{1 \cdot 9^{1} 6^{-^{-}} (12^{-} \text{ mm})}{1^{-^{-}} (12^{-} \text{ mm})} + L_{1} = \text{Actuation Level} \text{ (see chart below)}$ $\frac{1 \cdot 9^{1} 6^{-^{-}} (12^{-} \text{ mm})}{1^{-^{-}} (12^{-} \text{ mm})} + L_{1} = \text{Actuation Level} \text{ (see chart below)}$ $\frac{1 \cdot 9^{1} 6^{-^{-}} (12^{-} \text{ mm})}{1^{-^{-}} (12^{-} \text{ mm})} + L_{1} = \text{Actuation Level} \text{ (see chart below)}$ $\frac{1 \cdot 9^{1} 6^{-^{-}} (12^{-} \text{ mm})}{1^{-^{-}} (12^{-} \text{ mm})} + L_{1} = \text{Actuation Level} \text{ (see chart below)}$ $\frac{1 \cdot 9^{1} 6^{-^{-}} (12^{-} \text{ mm})}{1^{-^{-}} (12^{-} \text{ mm})} + L_{1} = \text{Actuation Level} \text{ (see chart below)}$ $\frac{1 \cdot 9^{1} 6^{-^{-}} (12^{-} \text{ mm})}{1^{-^{-}} (12^{-} \text{ mm})} + L_{1} = \text{Actuation Level} \text{ (see chart below)}$ $\frac{1 \cdot 9^{1} 6^{-^{-}} (12^{-} \text{ mm})}{1^{-^{-}} (12^{-} \text{ mm})} + L_{1} = \text{Actuation Level} \text{ (see chart below)}$ $\frac{1 \cdot 9^{1} 6^{-^{-}} (12^{-} \text{ mm})}{(12^{-} 14^{-^{-}} (12^{-} \text{ mm})} + L_{1} = \text{Actuation Level} \text{ (see chart below)}$	Dimensions – 1" Float Models only		Alternate Mountings	
$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \end{array} \end{array} \end{array}^{t} L_{1} = Actuation Level} (see chart below) \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \end{array} \\ \\ \end{array} \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \\ \\ \end{array} \\ \\ \end{array} \\ \end{array} \\ \begin{array} \\ \end{array} \\ \end{array}$	17/32 1/8" NPT			
Termination Lead WIFes Cable Cable	$\begin{array}{c c} & \uparrow & \downarrow \\ 2-3/32^{"} \\ (53.2 \text{ mm}) \\ 1-9/16^{"} \\ 1 \end{array} \begin{array}{c} \uparrow \\ 1 \end{array} \begin{array}{c} \downarrow \\ 1 \end{array} \begin{array}{c} \bullet \\ 1 \end{array} \end{array} \begin{array}{c} \bullet \\ 1 \end{array} $		↓ (8.0mm)	(12mm)
	1″ DIA (25.4 mm)	Lead Wires	Cable	Cable

🗲 – Stock Items.

Stem and Mounting Material	Float Material	Float Dia.	Actuation Level ¹	Min. Liquid Sp. Gravity	Pressure Max. @ 70°F (21°C)	Operating Temperature	Mounting Type	Electrical Termination	Part Number	
Polysulfone	Polysulfone	1″	3/4″ (19.0 mm)	.75	50 psi (3 bar)	-40°F to +225°F (-40°C to +107°C)	1/8″ NPT	Lead Wires	42295 🗲	
Pelana P					50 psi (3 bar)	-40°F to +225°F (-40°C to +107°C)	1/8″ NPT	Lead Wires	142505 🗲	
	Polypropylene	1″	13/16″ (20.6 mm)	.60			3/8″-16	Lead Wires	171517	
Polypropylene ²	(Hollow)					-40°F to +176°F (-40°C to +80°C)	G 1/8″-28	Cable	171518	
							M12x1.75	Cable	189739	
Polypropylene ³			13/16″	.60	50 psi (3 bar)	-40°F to +225°F (-40°C to +107°C)	1/8″ NPT	Lead Wires	209475	
NSF Std. C-2 (Kynar float retaining clip)		1″					3/8″-16	Lead Wires	209455	
		I	(20.6 mm)				G 1/8″-28	Lead Wires	209460	
							M12x1.75	Lead Wires	209465	
				.90	150 psi (10 bar) @ 68°F (20°C)	-40°F to +150°F (-40°C to +66°C)	1/8″ NPT	Lead Wires	116826 🗲	
		1″	9/16″ (14.3 mm)				3/8″-16	Lead Wires	171514	
	Polypropylene (Solid)					-40°F to +176°F (-40°C to +80°C)	M12x1.75	Cable	189787	
				3/4″	7/16″ (11.1 mm)	.95	Atmospheric	-40°F to +212°F (-40°C to +100°C)	1/8″ NPT	Lead Wires or Cable
Nylon E		1″	13/16″		150 psi (10 bar)	-40°F to +250°F (oil) (-40°C to +121°C [oil])	1/8″ NPT	Lead Wires	162745 🖌	
	Buna	I	(20.6 mm)			-40°F to +176°F (water) (-40°C to +80°C [water])	M12x1.75	Cable	189786	
		3/4″	11/16″ (17.5mm)	.85	150 psi (10.3 bar)	-40°F to +250°F (oil) (-40°C to +121°C [oil])	1/8″ NPT	Lead Wire	177818	
PVDF	PVDF	1″	1/2″ (12.7 mm)	.86	50 psi (3 bar)	-40°F to +250°F (-40°C to +121°C)	1/8″ NPT	Teflon Jacketed Lead Wires	173250	

How To Order - Select Part Number based on specifications required.

Notes:

1. Based on a liquid specific gravity of 1.0.

All Polypropylene units carry a Kynar retaining clip. Accessories Available in OEM Quantities: Jam Nut, Gaskets, and Slosh Shields.

3. NSF C-2 Approved unit, for water use only.

3/4" Diameter Floats for Tiny Tanks

Our smallest LS-3 yet!

- Reliable alternative to more expensive electronic sensors.
- Fits smaller devices. Less material, lower cost.
- Proprietary float more buoyant than competitors.

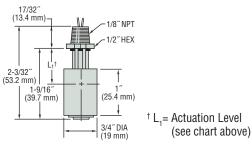
Small yes, but with BIG performance. No other 3/4" float switch on the market matches our LS-3 specs. These units are ideal for potable water, medical devices and other compact appliances, such as printers. Gems proprietary float enables use in lighter-than-water fluids. NSF/ FDA compliant models available at your request. Please consult factory.

Specifications

Wetted Material Stem and Mounting	
P/N 201540	Polypropylene with Kynar retaining clip
P/N 177818	Nylon
Float	
P/N 201540	Polypropylene
P/N 177818	Buna-N
Operating Temperature, Max. P/N 201540	212°F (100°C)
P/N 177818	250°F (121°C) oil, -40°F to +176°F (-40°C to +80°C)
Pressure, Max. P/N 201540	Atmospheric
P/N 177818	150 psi (10.3 bar)



Dimensions



Order by Part Numbers: LS-3, 3/4" Polypropylene Float: 201540 LS-3, 3/4" Buna–N Float: 177818



Unique Features Make These LS-3 Models Special

These small switches feature unique configurations for special applications.

> Part No. 142545 With Slosh Shield

Cut-away version shown

Compact, allpolypropylene switch with slosh shield is ideal for use with turbulent liquids in small tanks. FDA compliant materials.

Part No. 46999 Bottle Level



For external mounting on tanks too small to accommodate internally mounted switches. (See note below)

Part No. 76707 For Low Level



For detecting levels as low as 5/8″ from tank bottom. Use in water, some oils and chemicals.

	1/8" NPT 1/2" HEX 1/2" AND 1/2" HEX 1/2" AND 1/2" A	THE THE THE THE THE THE THE THE	1/8" NPT (3.2 mm) (3.2 mm) (3.1 mm) (3.2 mm) (3.2 mm) (3.1 mm) (3.2 mm) (3.2 mm) (3.1 mm) (3.2 mm) (3.2 mm) (3.2 mm) (3.1 mm) (3.2 mm) (3.2 mm) (3.1 mm) (3.2 m	
Order By Part Number	142545 🗲	46999 🗲	76707 🗲	
Materials				
Stem and Mounting	All Polypropylene (Including Shield ⁴)	Polysulfone	All Polysulfone (Including Collar)	
Float	Polypropylene (Solid)	Polysulfone	Buna N	
Other Wetted	_	Brass, Aluminum, Polycarbonate, Viton A	Ероху	
Min. Liquid Sp. Gr.	.90	.75	_	
Operating Temperature	-40°F to +150°F (-40°C to +65.6°C)	-40°F to +120°F (-40°C to +48.9°C)	-40°F to +180°F (-40°C to +82.2°C)	
Pressure, PSI, Max. ³	150	5	60	
Switch ¹ , SPST	20 VA, N.C./N.O. Dry ²	20 VA, N.C. Dry		
Electrical Termination	No. 22 AWG, 22" L., PVC Lead Wires	No. 22 AWG, 72" L., Polymeric Lead Wires	No. 22 AWG, 72" L., PVC Lead Wires	
Notes:		Note: LS-3 Series Bottle Level Switch is also av	vailable with any of the float materials shown on	

opposite page. Contact GEMS for correct part number.

See "Electrical Data" on Page X-5 for more information. 1. Switch operation is selectable, N.O. or N.C., by inverting the float on the unit stem. 2.

3. Maximum pressure at 70°F (21°C).

4.

Consult factory for other available materials. L_1 = Switch actuation level, nominal (based on a specific gravity of 1.0).

t

🗲 - Stock Items.

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Largest Supplier of Electrical and Electronic Components

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 156268
 35651
 27A1D0

 173931-C
 70824
 160460
 106-P301A
 155481
 87480
 01801
 PS41-20-4MNB-C-HC
 26717
 142700
 164520
 79990
 01701
 70821
 22445

 01755
 140620
 01950
 30288
 PS41-30-4MNB-C-FL18
 155421
 160450
 131100
 43765
 116826
 142505