

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.



For water based liquids, with limited use in oils and chemicals.



Features a low specific gravity float offering broad chemical compatibility.



With Polypropylene stem and float, switch offers broad chemical compatibility.



Ideal for oils and fuels.



Stem and float of corrosion-resistant PVDF for ultra-pure applications.



See next page for details.



RoHS Compliant:

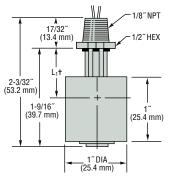
All LS-3 Series level switches featured on this page and the next are in compliance with EU-directive 2011/65/EC.

Common Specifications

Approvals: U.L. Recognized – File No. E45168; CSA Listed – File No. 30200. CE Declaration Available Upon Request. NSF materials are NSF 169 Standard compliant. For NSF approved level switches contact Gems. RoHS – In compliance with EU-directive 2011/65/EC requirements for chemicals and substances.

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. For LS-3 Micro: 20 VA, 140 VAC/200 VDC

Dimensions – 1" Float Models only



† L₁= Actuation Level (see chart on next page)

	Alternate Mountings						
	3/8″-16	G1/8″	M12x 1.75				
	Straight Thread	1/8″-28 BSP	Straight Thread				
	7.390 REF. (9.9mm) 14 HEX	7-315° REF. (8.0mm) 14" 9/16" HEX	7.475° REF. (12mm) -20° 5/8° (5.1mm)				
Electrical Termination	Lead Wires	Cable	Cable				

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

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 🗲
Polypropylene ²	Polypropylene (Hollow)	1″	13/16" (20.6 mm)	.60	50 psi (3 bar)	-40°F to +225°F (-40°C to +107°C)	1/8" NPT	Lead Wires	142505 🗲
							3/8″-16	Lead Wires	171517 🗲
						-40°F to +176°F (-40°C to +80°C)	G 1/8"-28	Cable	171518
							M12x1.75	Cable	189739
Polypropylene ³ NSF Std. 169 (Kynar float retaining clip)	Polypropylene ³ (Hollow) NSF Std. 169	Hollow) 1"	13/16" (20.6 mm)	.60		-40°F to +225°F (-40°C to +107°C)	1/8" NPT	Lead Wires	209475
					50 psi (3 bar)		3/8″-16	Lead Wires	209455
							G 1/8"-28	Lead Wires	209460
							M12x1.75	Lead Wires	209465
	Polypropylene (Solid)	1″	9/16″ (14.3 mm)	.90	150 psi (10 bar) @ 68°F (20°C)	-40°F to +150°F (-40°C to +66°C) -40°F to +176°F (-40°C to +80°C)	1/8" NPT	Lead Wires	116826 🗲
Polypropylene ²							3/8″-16	Lead Wires	171514 🗲
							M12x1.75	Cable	189787
Nylon	Buna	2 4//	1" 13/16" (20.6 mm)	.45	150 psi (10 bar)	-40°F to +250°F (oil) (-40°C to +121°C [oil])	1/8" NPT	Lead Wires	162745 🗲
		'				-40°F to +176°F (water) (-40°C to +80°C [water])	M12x1.75	Cable	189786
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 🗲

Notes:

- 1. Based on a liquid specific gravity of 1.0.
- 2. All Polypropylene units carry a Kynar® retaining clip. Accessories Available in OEM Quantities: Jam Nut, Gaskets, and Slosh Shields.
- 3. NSF 169 Approved unit, for water use only.

Miniature and Micro Floats for Tiny Tanks

Our smallest LS-3 Series switches yet!

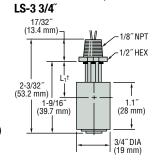
Small yes, but with BIG performance. No other miniature float switches match our LS-3 specs. These units are ideal for potable water, medical devices and other compact appliances, such as printers. Gems proprietary float enables use in lighter-than-water fluids. Switches are made from FDA compliant materials.

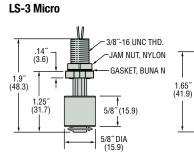




- Stock Items.

Dimensions – 3/4" and Micro Series





D. DN	+	
N		
	1.65″ (41.9)	<u></u>
		L₁†
		.28″ (7.1)

† L,= Actuation Level	
see chart below	I)

Series	Stem and Mounting Material	Float Material	Actuation Level ¹	Min. Liquid Sp. Gravity	Pressure Max. @ 70°F (21°C)		Electrical Termination	Mounting Type	Switch Logic	Part Number
LS-3 3/4 ^{"2}	Polypropylene ²	Polypropylene (Solid)	7/16" (11.1 mm)	.95	100 psi (6.9 bar)	-40°F to +212°F (-40°C to +100°C)	Lead Wires or Cable	- 1/8″ NPT	N.C./N.O. Reverse Float Position	201540
	Nylon	Buna	11/16" (17.5mm)	.85	150 psi (10.3 bar)	-40°F to +250°F (oil) (-40°C to +121°C [oil])	Lead Wire			177818
LS-3 Micro	Polypropylene		3/8″		50 psi (3 bar)	-40°F to +176°F (-40°C to +80°C)	PVC Jacketed Lead Wires 24"-26"	1/8" NPT	N.O.	247135
				.95					N.C.	247137
			(9.5 mm)	m) .95				3/8″-16 Straight	N.O.	246985
									N.C.	246986

Notes

- Based on a liquid specific gravity of 1.0.
- 2. Utilizes a Kynar® retaining clip.