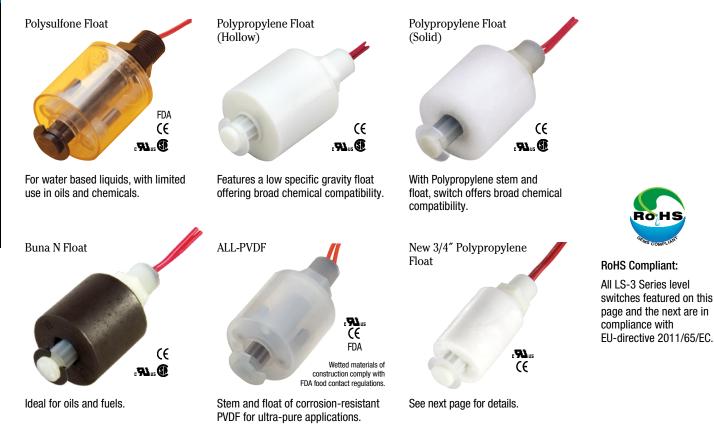


**FLOAT TYPE** 

## 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.

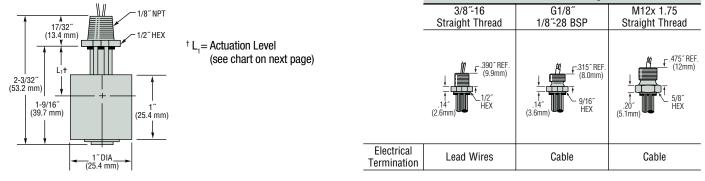


#### Common Specifications

Approvals: U.L. Recognized – File No. E45168; CSA Listed – File No. 30200. CE Declaration Available Upon Request. RoHS – In compliance with EU-directive 2011/65/EC requirements for chemicals and substances. For NSF certified level switch products, 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. For LS-3 Micro: 20 VA, 140 VAC/200 VDC

#### Dimensions – 1" Float Models only



**Alternate Mountings** 

Stem and Mounting Material	Float Material	Float Dia.	Actuation Level <sup>1</sup>	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 🗲
						-40°F to +225°F	1/8″ NPT	Lead Wires	142505 🗲
Delugrapulane <sup>2</sup>	Polypropylene	1″	13/16″	.60	50 psi	(-40°C to +107°C)	3/8″-16	Lead Wires	171517 🗲
Polypropylene <sup>2</sup>	(Hollow)		(20.6 mm)	.60	(3 bar)	-40°F to +176°F	G 1/8″-28	Cable	171518
						(-40°C to +80°C)	M12x1.75	Cable	189739
						-40°F to +150°F	1/8″ NPT	Lead Wires	116826 🗲
Delunrenulene?	Polypropylene	1″	9/16″	.90	150 psi	(-40°C to +66°C)	3/8~-16	Lead Wires	171514 🗲
Polypropylene <sup>2</sup>	(Solid)		(14.3 mm)	.90	(10 bar) @ 68°F (20°C)	-40°F to +176°F (-40°C to +80°C)	M12x1.75	Cable	189787
Nider	Dura	1″	13/16″	45	150 psi	-40°F to +250°F (oil) (-40°C to +121°C [oil])	1/8″ NPT	Lead Wires	162745 🗲
Nylon	Buna	I	(20.6 mm)	.45	(10 bar)	-40°F to +176°F (water) (-40°C to +80°C [water])	M12x1.75	Cable	189786
Polypropylene							1/8″ NPT	Lead Wires	209475
(PVDF float	Polypropylene	1″	13/16″	<u> </u>	50 psi	-40°F to +225°F	3/8″-16	Lead Wires	209455
retaining clip)	(Hollow) LS-3N <sup>3</sup>		(20.6 mm)	.60	(3 bar)	(-40°C to +107°C)	G 1/8″-28	Lead Wires	209460
LS-3N <sup>3</sup>	20 014						M12x1.75	Lead Wires	209465
PVDF LS-3F⁴	PVDF LS-3F⁴	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 <sup>®</sup> Jacketed Lead Wires	173250 🗲
Notes:				•		·,		·	🖌 – Stock Items

Notes:

Based on a liquid specific gravity of 1.0. 1.

All Polypropylene units carry a Kynar® retaining clip. Accessories Available in OEM Quantities: Jam Nut, Gaskets, and Slosh Shields. 2.

3. LS-3N is an NSF certified product, for water use only.

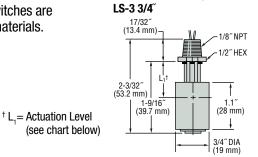
4. LS-3F is an NSF certified product for all food contact.

# Miniature and Micro Floats for Tiny Tanks

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

#### 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.



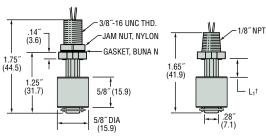
Dimensions -3/4" and Micro Series



LS-3 Micro

.91... Œ

LS-3 Micro



Series	Stem and Mounting Material	Float Material	Actuation Level <sup>1</sup>	Min. Liquid Sp. Gravity	Pressure Max. @ 70°F (21°C)		Electrical Termination	Mounting Type	Switch Logic	Part Number
LS-3 3/4 <sup>" 2</sup>	Polypropylene <sup>2</sup>	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.	201540
L3-3 3/4 -	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	I/O NPI	Reverse Float Position	177818
								1/8″ NPT	N.O.	247135
LS-3 Micro	Polypropylene	Polypropylene	3/8″	.95	50 psi	-40°F to +176°F	PVC Jacketed Lead Wires		N.C.	247137
L3-3 MICTU	Folypropylene	(Hollow	(9.5 mm)	.90	(3 bar)	(-40°C to +80°C)	24"-26"	3/8″-16	N.O.	246985
							2.20	Straight	N.C.	246986

Notes:

1. Based on a liquid specific gravity of 1.0.



### Unique Features Make These LS-3 Models Special

These small switches feature unique configurations for special applications.

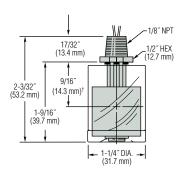


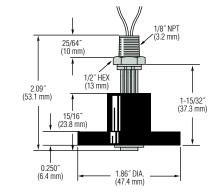
Cut-away version shown

Compact, all-polypropylene switch with slosh shield is ideal for use with turbulent liquids in small tanks. FDA compliant materials. Part No. 76707 For Low Level



For detecting levels as low as  $5/8^{\prime\prime}$  from tank bottom. Use in water, some oils and chemicals.





Order By Part Number	142545 🗲	76707 🗲			
Materials					
Stem and Mounting	All Polypropylene (Including Shield4)	All Polysulfone (Including Collar)			
Float	Polypropylene (Solid)	Buna N			
Other Wetted	_	Ероху			
Ain. Liquid Sp. Gr.	.90	—			
perating Temperature	-40°F to +150°F (-40°C to +65.6°C)	-40°F to +180°F (-40°C to +82.2°C)			
Pressure, PSI, Max. <sup>3</sup>	150	50			
Switch <sup>1</sup> , SPST	20 VA, N.C./N.O. Dry <sup>2</sup>	20 VA, N.C. Dry			
Electrical Termination	No. 22 AWG, 22" L., PVC Lead Wires	No. 22 AWG, 72" L., PVC Lead Wires			

✓ – Stock Items.

Notes:

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

2. Switch operation is selectable, N.O. or N.C., by inverting the float on the unit stem.

3. Maximum pressure at 70°F (21°C).

4. Consult factory for other available materials.

+ L<sub>1</sub> = Switch actuation level, nominal (based on a specific gravity of 1.0).

LEVEL SWITCHES – SINGLE POIN