

Small Size - Alloys

LS-7 Series

Compact Alloy and Alloy/Plastics Side Mounts

Built for durability, our LS-7 Series switches utilize stainless steel, or zinc bodies. Ideal for any small tank or vessel destined for a rugged environment. All-stainless steel material of construction of Types 9 and 11 is generally recognized as safe with FDA for food contact regulations.

Common Specifications



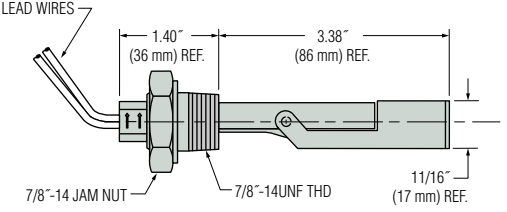
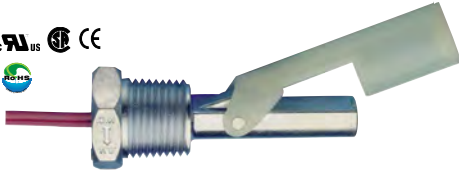

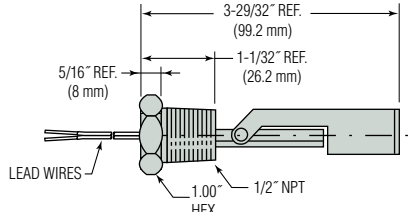


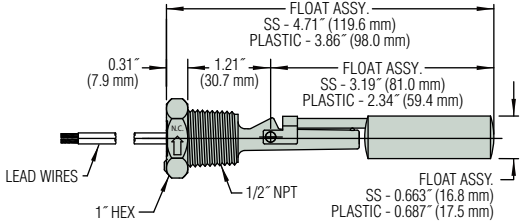


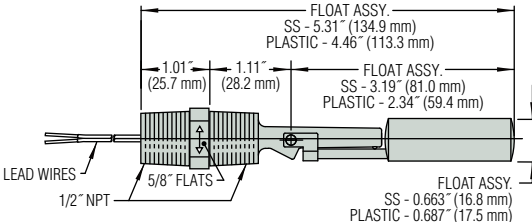


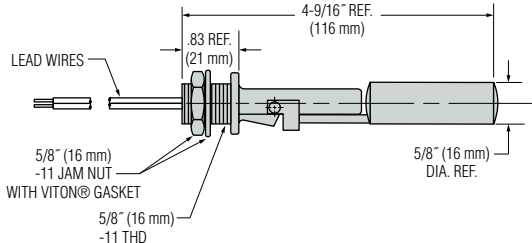
Switch Rating*: SPST, 20VA

Lead Wire: 22 AWG, 24"-27" Extended

Mounting Attitude: Horizontal.

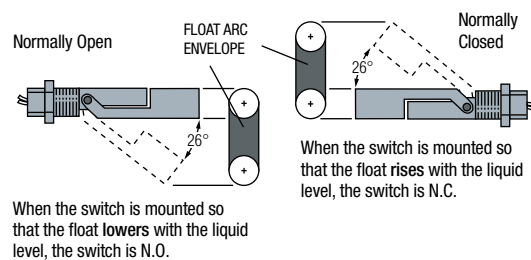
RoHS: In compliance with EU-directive 2011/65/EC requirements for chemicals and substances.

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

<p>Type 6 External Mounting</p>	 <p>CE </p> <p>Zinc alloy body with polypropylene or nylon float. SAE Mounting.</p>	 <p>LEAD WIRES</p> <p>1.40" (36 mm) REF.</p> <p>3.38" (86 mm) REF.</p> <p>7/8"-14 JAM NUT</p> <p>7/8"-14UNF THD</p> <p>11/16" (17 mm) REF.</p>
<p>Type 8 External Mounting</p>	 <p>cULus  CE</p> <p>Zinc alloy body with nylon or polypropylene float.</p>	 <p>3-29/32" REF. (99.2 mm)</p> <p>5/16" REF. (8 mm)</p> <p>1-1/32" REF. (26.2 mm)</p> <p>LEAD WIRES</p> <p>1.00" HEX</p> <p>1/2" NPT</p>
<p>Type 9 External Mounting</p>	 <p>cULus  CE</p> <p>316 Stainless Steel body with 316 SS, nylon or polypropylene float.</p>	 <p>FLOAT ASSY. SS - 4.71" (119.6 mm) PLASTIC - 3.86" (98.0 mm)</p> <p>0.31" (7.9 mm)</p> <p>1.21" (30.7 mm)</p> <p>FLOAT ASSY. SS - 3.19" (81.0 mm) PLASTIC - 2.34" (59.4 mm)</p> <p>LEAD WIRES</p> <p>1" HEX</p> <p>1/2" NPT</p> <p>FLOAT ASSY. SS - 0.663" (16.8 mm) PLASTIC - 0.687" (17.5 mm)</p>
<p>Type 9 External Mounting</p>	 <p>cULus  CE</p> <p>316 Stainless Steel body with 316 SS, nylon or polypropylene float.</p>	 <p>FLOAT ASSY. SS - 5.31" (134.9 mm) PLASTIC - 4.46" (113.3 mm)</p> <p>1.01" (25.7 mm)</p> <p>1.11" (28.2 mm)</p> <p>FLOAT ASSY. SS - 3.19" (81.0 mm) PLASTIC - 2.34" (59.4 mm)</p> <p>LEAD WIRES</p> <p>5/8" FLATS</p> <p>1/2" NPT</p> <p>FLOAT ASSY. SS - 0.663" (16.8 mm) PLASTIC - 0.687" (17.5 mm)</p>
<p>Type 11 Internal Mounting</p>	 <p>cULus  CE</p> <p>316 Stainless Steel body with 316 S.S. float.</p>	 <p>LEAD WIRES</p> <p>.83 REF. (21 mm)</p> <p>4-9/16" REF. (116 mm)</p> <p>5/8" (16 mm)</p> <p>-11 JAM NUT</p> <p>WITH VITON® GASKET</p> <p>5/8" (16 mm)</p> <p>-11 THD</p> <p>5/8" (16 mm) DIA. REF.</p>

Switch Operation

Depending on the mounting position, the float on these switches can either rise or lower with the liquid level. By rotating the switch 180°, the switch operation can be Normally Open or Normally Closed.



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

Mounting Type	Materials			Min. Liquid Sp. Gr.	Operating Temperature	Operating Pressure, Max.	Float Arc Envelope	Part Number
	Stem and Mounting	Float	Lead Wire Jacket					
6	Zinc Alloy*	Nylon	TPE [†]	.65	-40°F to +250°F (-40°C to +121°C)	100 psi @ 70°F	1.36	155660 ⚡
		Polypropylene		.75	-40°F to +225°F (-40°C to +107°C)	100 psi @ 70°F	1.36	179870
8	Zinc Alloy*	316 S.S.	TPE [†]	.80	-40°F to +250°F (-40°C to +121°C)	300 psi @ 70°F	1.43	249315
		Nylon		.65	-40°F to +250°F (-40°C to +121°C)	100 psi @ 70°F	1.40	160950 ⚡
		Polypropylene		.55	-40°F to +225°F (-40°C to +107°C)	100 psi @ 70°F	1.40	162795 ⚡
	316 Stainless Steel	316 S.S.	TPE [†]	.80	-40°F to +250°F (-40°C to +121°C)	300 psi @ 70°F	1.43	249315
		Nylon		.65	-40°F to +250°F (-40°C to +121°C)	100 psi @ 70°F	1.40	247390
		Polypropylene		.55	-40°F to +225°F (-40°C to +107°C)	100 psi @ 70°F	1.40	247380
9	316 Stainless Steel	316 S.S.	TPE [†]	.80	-40°F to +250°F (-40°C to +121°C)	300 psi @ 70°F	1.43	164870 ⚡
		Nylon		.65	-40°F to +250°F (-40°C to +121°C)	100 psi @ 70°F	1.40	164850 ⚡
		Polypropylene		.55	-40°F to +225°F (-40°C to +107°C)	100 psi @ 70°F	1.40	164860 ⚡
11	316 Stainless Steel		Teflon [®]	.80	-40°F to +250°F (-40°C to +121°C)	300 psi @ 70°F	1.65	179445

[†]Thermoplastic Elastomer Zip Cord.

⚡ – Stock Items.

***Zinc Alloy Material Note:**

When mounted in certain cathodic metals, including stainless steel, and used in water-based liquids, galvanic corrosion may occur. Consult factory for information.

LEVEL SWITCHES – SINGLE POINT

Small Size – Alloys

Rugged Durability, With Broad Heat and Pressure Capabilities, are Hallmarks of These Compact Switches

Ideal for shallow tanks or restricted spaces, or for low-cost, high volume use.

LS-1700 Series –
Buna N Float



LS-1700 Series –
Teflon® Float



LS-1750 Series –
All Stainless Steel



LS-1755 Series –
All Stainless Steel



Offer broad chemical compatibility for general purpose use. Also ideal for oils and water.

Rugged construction suitable for most corrosive liquids, and for high temperatures and pressures. Stainless steel is generally recognized as safe (GRAS) with FDA for food contact regulations.

Dimensions

LS-1700 Series		LS-1750 Series		LS-1755 Series	
Buna N Float		Teflon® Float		Stainless Steel Float and Stem	
<p>$L_1 = 9/16"$ (14.2 mm) N.O.; $13/16"$ (20.6 mm) N.C.</p>		<p>$L_1 = 1/2"$ (12.7 mm) N.O. and N.C.</p>		<p>$L_1 = 5/8"$ (15.7 mm) N.O.; $3/4"$ (19.1 mm) N.C.</p>	
<p>$L_1 = 37/64"$ (14.5 mm) N.O.; $53/64"$ (20.8 mm) N.C.</p>					

† L_1 = Switch actuation level, nominal (based on a liquid specific gravity of 1.0).

Common Specifications

Electrical Termination: No. 22 AWG, 24" L., Polymeric Lead Wires, (except Part No. 79990 which has Teflon® Lead Wires).

Approvals: Series Nos. LS-1700, LS-1750 and LS-1755 are U.L. Recognized – File No. E45168 and CSA Listed – File No. 30200. RoHS – In compliance with EU-directive 2011/65/EC requirements for chemicals and substances.

Switch Operation: Units are shipped N.O. unless otherwise specified. Selectable, N.O. or N.C., by inverting float on unit stem (except for LS-1700 Series switches with Teflon® Floats; see selection in "How to Order" table).

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

Series Number	Material			Min. Liquid Sp. Gr.	Operating Temperature	Pressure, PSI, Max.**	Switch* SPST	Part Number
	Stem and Mounting	Float	Other Wetted					
LS-1700	Brass	Buna N	316 S.S., Epoxy	.45	Water: to 180°F (82.2°C) Oil: -40°F to +300°F (-40°C to +149°C)	300	20 VA	01701 ⚡
							20 VA	01702 ⚡
	316 S.S.	Teflon®		.85	-40°F to +250°F (-40°C to +121.1°C)	1000	20 VA, N.O.	26791 ⚡
							20 VA, N.C.	27980 ⚡
LS-1750	316 S.S.	316 S.S.	316 S.S.	.70	-40°F to +300°F (-40°C to +148.9°C) -40°F to +480°F (-40°C to +204.4°C)	100	20 VA	01750 ⚡
							20 VA	79990 ⚡
LS-1755	316 S.S.	316 S.S.	316 S.S.	.90	-40°F to +300°F (-40°C to +148.9°C)	275	20 VA	01755 ⚡

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

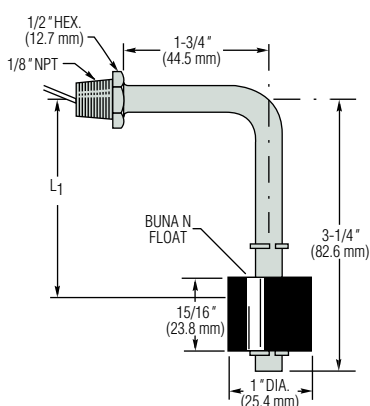
** Higher pressures are temperature dependent.

LS-77700 Series – Bent Stem Switches Provide Greatest Buoyancy Of Any Side Mount Version

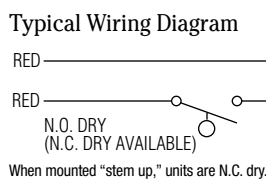
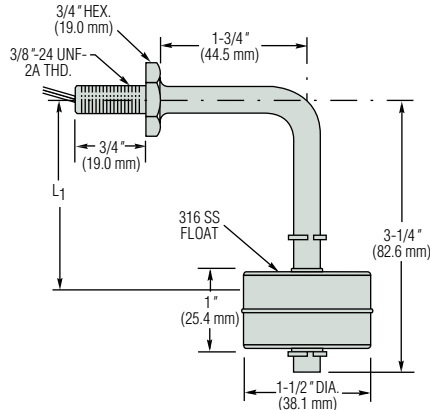
These units perform in liquids with specific gravities as low as .45; switches protrude into tank less than 3 inches.

Dimensions

Type I – 1/8" NPT



Type II – 3/8-24" Thread



L₁ Dimension (based on liquid specific gravity of 1.0):

Buna N Float: 2-3/8" (60.3 mm) ± 3/16"

Stainless Steel Float: 2" (50.8 mm) ± 3/16"

Common Specifications

Electrical Termination: No. 22 AWG, 24" L., Teflon® Lead Wires

Approvals: U.L. Recognized – File No. E45168

RoHS – In compliance with EU-directive 2011/65/EC requirements for chemicals and substances.

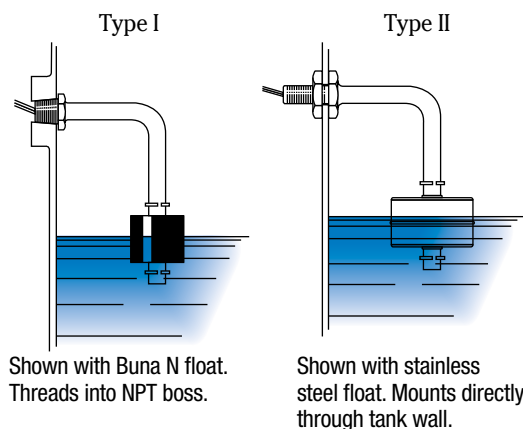
Switch* SPST: 20 VA, 120-240 VAC. Switch is N.O. (Dry), but available N.C. (Dry).

Mounting Attitude: Vertical ± 30°.

Other Wetted Materials: Float Stop is Beryllium Copper or PH-15-7-MO Stainless Steel.

Grooved Stem Option: Stem may be grooved to prevent accidental or vibrational movement of float stops (grip rings).

Typical Installation



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

Type	Materials		Min. Liquid Sp. Gr.	Operating Temperature	Pressure, PSI, Max.	Part Number
	Stem and Mounting	Float				
I	Brass	316 Stainless Steel	.70	-40°F to +300°F (-40°C to +149°C)	100	117711
	316 Stainless Steel					117712 ⚡
	Brass	Buna N	.45	Water: to 180°F (82°C) Oil: -40°F to +300°F (-40°C to +149°C)	300	118125 ⚡
	Stainless Steel					118126
II	Brass	316 Stainless Steel	.70	-40°F to +300°F (-40°C to +149°C)	100	117715
	316 Stainless Steel					117716 ⚡
	Brass	Buna N	.45	Water: to 180°F (82.2°C) Oil: -40°F to +300°F (-40°C to +149°C)	300	118127 ⚡
	Stainless Steel					118128

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

⚡ – Stock Items.