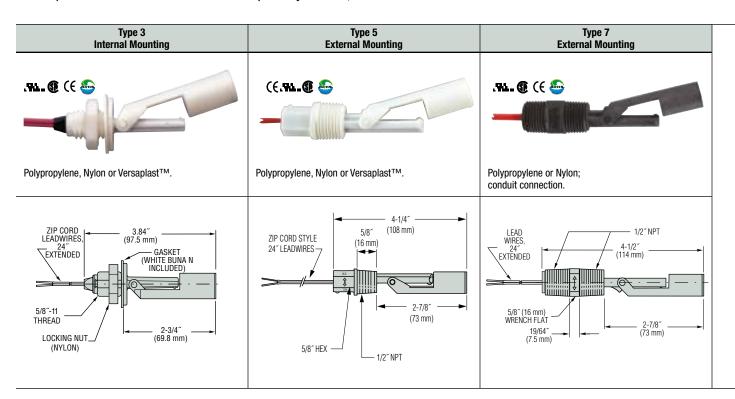


## Small Size – Engineered Plastics

# LS-7 Series—Compact Side Mounts are the Solution to Many Small Tanks

These low-cost units are ideal for high volume use in small tanks and vessels. Engineered plastics construction offers broad compatibility in water, oils and chemicals.



### **Common Specifications**

Switch Rating\*: SPST, 20VA
Lead Wire Gauge: No. 22 AWG
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.

### Approvals

Material	CE	UL Recognized File No. E45168	cUL Recognized	CSA Listed File No. 30200
Nylon	Х	Х	Х	Х
Polypropylene	Х	Х	Х	Х
Noryl®	Х	Х	Х	
Versaplast™	Χ	Х	Х	

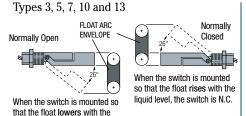
### Media Compatibility

Media	LS-7 Compatible Types
Oil, Fuel, Hydrocarbons	Nylon
Broad Range of Chemicals and Water	Polypropylene
Limited Chemicals and Water	Noryl <sup>®</sup>
Oil, Antifreeze, High Temperatures, Corrosive Fluids, Various Chemicals	Versaplast™

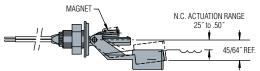
#### **Switch Operation**

liquid level, the switch is N.O.

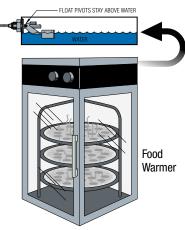
Depending on the mounting position, the float on these switches can rise or lower with the liquid level. By rotating the switch 180°, the switch operation can be Normally Open or Normally Closed (except Type 12).



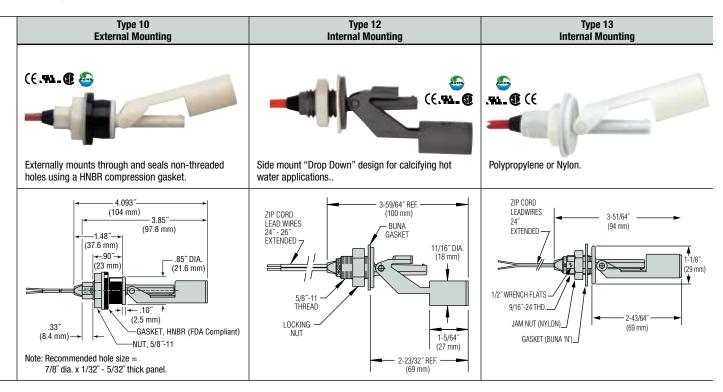
Type 12 – N.C. "Drop Float" Design



The LS-7 Type 12 is ideal for use on food warmers, hot water heaters, steam cookers, small boilers or wherever water evaporation occurs. The switch is used effectively for either high fluid level alarms or water make up systems.



- Nylon is ideal for oils and fuels.
- ▶ Polypropylene is ideal for potable water and broad chemicals.
- Versaplast™ is ideal for corrosive fluids, hot water, antifreeze, chemicals and oils.



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

Mounting - Type	Materials*		Min.		Operating	Float	Part	
	Stem and Mounting	Float	Lead Wire Jacket	Liquid Sp. Gr.	Operating Temperature	Pressure, Max.	Arc Envelope	Number
	Ny	lon		.65	-40°F to +250°F (-40°C to +121.1°C)	400 10 700		165570 🗲
3	Polypropylene Versaplast™		TPE†	.55	-40°F to +225°F (-40°C to +107.2°C)	100 psi @ 70°F - (6.8 bar @ 20°C)	2.20	164520 🗲
				.80	-40°F to +250°F (-40°C to +121.1°C)			182600
	Polypro	opylene	TDC†	.55	-40°F to +225°F (-40°C to +107.2°C)			131100 🗲
5	Nylon		TPE <sup>†</sup>	.65	-40°F to +250°F (-40°C to +121.1°C)	100 psi @ 70°F (6.8 bar @ 20°C)	1.25	140620 🗲
	Versa	olast™	Teflon®	.80	-40°F to +300°F (-40°C to +148.9°C)	(0.0 bai @ 20 0)		177100 🗲
5 - BSP	Versaplast™		TPE†	.80	-40°F to +250°F (-40°C to +121.1°C)	100 psi @ 70°F (6.8 bar @ 20°C)	1.25	189422
7	Polypropylene	pylene	TDE+	.55	-40°F to +225°F (-40°C to +107.2°C)	100 psi @ 70°F	4.50	160450 🗲
′	Ny	lon	TPE <sup>†</sup>	.65	-40°F to +250°F (-40°C to +121.1°C)	(6.8 bar @ 20°C)	1.50	160460 🗲
10	Polypro	pylene	TPE†	.55	-40°F to +225°F (-40°C to +107.2°C)	50 psi @ 70°F	2.08	165800 🗲
10	Nylon		IPE	.65	-40°F to +250°F (-40°C to +121.1°C)	(3.4 bar @ 20°C)	2.00	165900
12	No	ryl®	TPE†	.80	-40°F to +225°F (-40°C to +107.2°C)	100 psi @ 70°F (6.8 bar @ 20°C)	.70	191080 🗲
13	Polypro	ppylene	TPE†	.55	-40°F to +225°F (-40°C to +107.2°C)	100 psi @ 70°F (6.8 bar @ 20°C)	2.20	197050

<sup>\*</sup> Polysulfone and Ryton® R-4 are available upon request.

Note: NSF 169 certified products available. Contact factory.

✓ – Stock Items.

See alloy versions on next page.

<sup>†</sup> Thermoplastic Elastomer Zip Cord, 22 AWG.



# 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

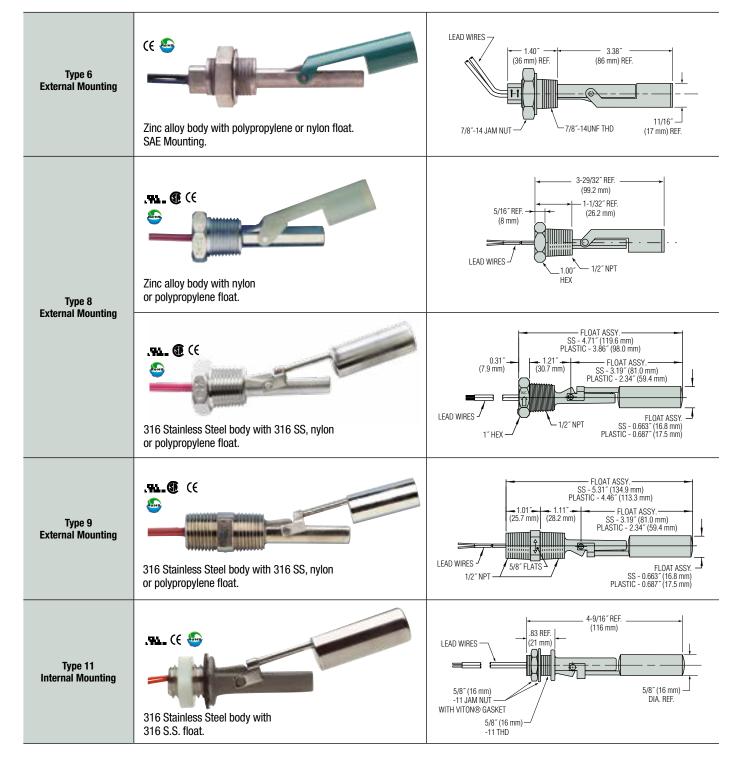
Lead Wire: 22 AWG, 24"-27" Extended

Mounting Attitude: Horizontal.

RoHS: In compliance with EU-directive 2011/65/EC require-

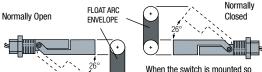
ments for chemicals and substances.

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



### **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.



When the switch is mounted so that the float **lowers** with the liquid level, the switch is N.O.

When the switch is mounted so that the float rises with the liquid level, the switch is N.C.

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

Mounting Type	Materials			Min.		Operating	Float Arc	Part
	Stem and Mounting	Float	Lead Wire Jacket	Liquid Sp. Gr.	Operating Temperature	Pressure, Max.	Envelope	Number
6	Zinc	Nylon	TPE†	.65	-40°F to +250°F (-40°C to +121°C)	100 psi @ 70°F	1.36	155660 🗲
ь	Alloy*	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

<sup>&</sup>lt;sup>†</sup>Thermoplastic Elastomer Zip Cord.

#### \*Zinc Alloy Material Note:

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