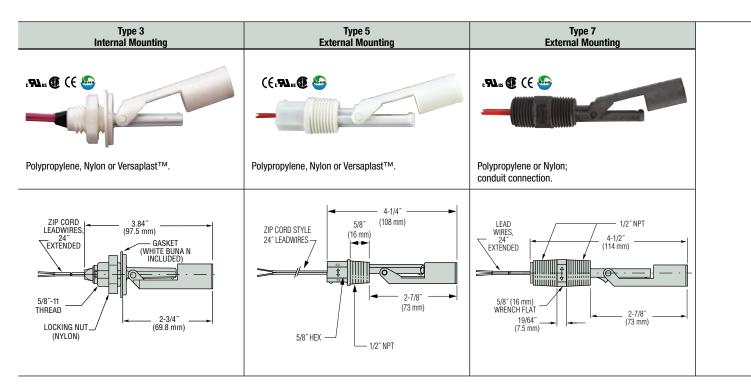


## Small Size – Engineered Plastics

### 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	NSF Listed Mat. Std. 169	
-	Nylon	Х	Х	Х	Х		
	Polypropylene	Х	Х	Х	Х	Х	
	Noryl®	Х	Х	Х		Х	
	Versaplast™	Х	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®		
Oil, Antifreeze, High Temperatures, Corrosive Fluids, Various Chemicals	Versaplast™		

#### Switch Operation

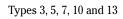
Depending on the mounting position, the float on these switches can rise or lower with the liquid level. By rotating the switch 180°, the switch operation can be Normally Open or Normally Closed (except Type 12)

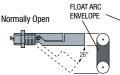
Normally

2

Closed

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

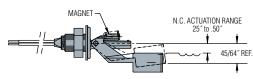




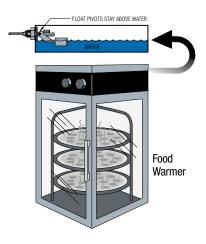
**-**+

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

#### Type 12 – N.C. "Drop Float" Design

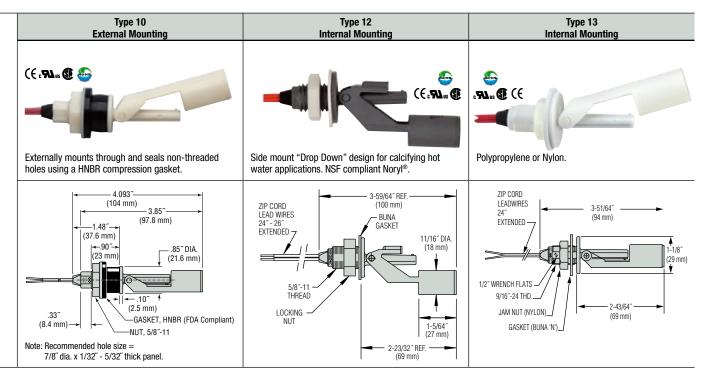


The LS-7 Type 12 is ideal for use on food warmers, hot water heaters, steam cookers, small boilers or wherever water evaporation occurs. The switch is used effectively for either high fluid level alarms or water make up systems. The units are made of Noryl®, which carries NSF approval for use in potable water, and are supplied with FDA-approved Buna gaskets.





- Nylon is ideal for oils and fuels.
- NSF Standard 169 polypropylene is ideal for potable water and broad chemicals. Þ
- Versaplast<sup>™</sup> is ideal for corrosive fluids, hot water, antifreeze, chemicals and oils.



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

Mounting	Materials*			Min.		Operating	Float	Part
Туре	Stem and Mounting	Float	Lead Wire Jacket	Liquid Sp. Gr.	Operating Temperature	Pressure, Max.	Arc Envelope	Number
	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)	2.20	165570 🗲
3	Polypropylene Versaplast™			.55	-40°F to +225°F (-40°C to +107.2°C)			164520 🗲
				.80	-40°F to +250°F (-40°C to +121.1°C)			182600
	Polypropylene		- TPE <sup>†</sup>	.55	-40°F to +225°F (-40°C to +107.2°C)	100 psi @ 70°F (6.8 bar @ 20°C)	1.25	131100 🗲
5	Nylon			.65	-40°F to +250°F (-40°C to +121.1°C)			140620 🗲
	Versaplast™		Teflon®	.80	-40°F to +300°F (-40°C to +148.9°C)	(0.0 but 0 20 0)		177100 🗲
5 - BSP	Versap	last™	TPE <sup>†</sup>	.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		TDC+	.55	-40°F to +225°F (-40°C to +107.2°C)	100 psi @ 70°F	1.50	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	Polypropylene Nylon		.55	-40°F to +225°F (-40°C to +107.2°C)	50 psi @ 70°F (3.4 bar @ 20°C)	2.08	165800 🗲
10	Ny			.65	-40°F to +250°F (-40°C to +121.1°C)			165900
12	Nor	∵yl®	TPE <sup>†</sup>	.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	pylene	TPE <sup>†</sup>	.55	-40°F to +225°F (-40°C to +107.2°C)	100 psi @ 70°F (6.8 bar @ 20°C)	2.20	197050

\* Polysulfone and Ryton® R-4 are available upon request.

† Thermoplastic Elastomer Zip Cord, 22 AWG.

Note: NSF 169 Versions available. Contact factory.

4 - Stock Items.

#### See alloy versions on next page.



### 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**

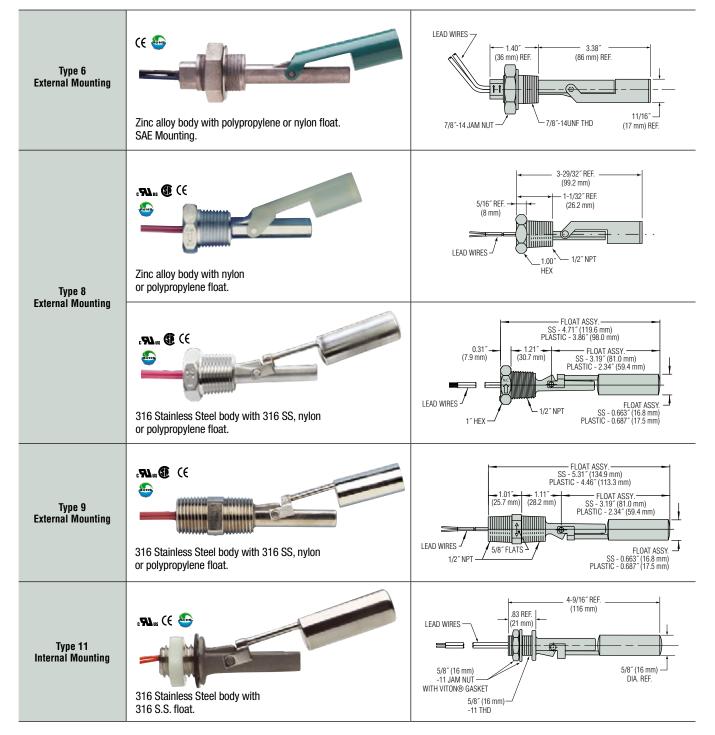
Switch Rating\*: SPST, 20VA

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

Mounting Attitude: Horizontal.

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

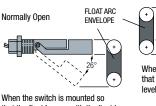
\*See "Electrical Data" on Page X-5 for more information.





#### 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.



that the float lowers with the liquid level, the switch is N.O.

## Normally Closed

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		Materials				Onoroting	Elect Are	Part
Туре	Stem and Mounting	Float	Lead Wire Jacket	Liquid Sp. Gr.	Operating Temperature	Operating Pressure, Max.	Float Arc Envelope	Number
6	Zinc Alloy*	Nylon	TPE <sup>†</sup>	.65	-40°F to +250°F (-40°C to +121°C)	100 psi @ 70°F	1.36	155660 🗲
0		Polypropylene		.75	-40°F to +225°F (-40°C to +107°C)	100 psi @ 70°F	1.36	179870
		316 S.S.	TPE <sup>†</sup>	.80	-40°F to +250°F (-40°C to +121°C)	300 psi @ 70°F	1.43	249315
	Zinc Alloy*	Nylon		.65	-40°F to +250°F (-40°C to +121°C)	100 psi @ 70°F	1.40	160950 🗲
8		Polypropylene		.55	-40°F to +225°F (-40°C to +107°C)	100 psi @ 70°F	1.40	162795 🗲
8	316 Stainless Steel	316 S.S.	TPE <sup>†</sup>	.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
	316	316 S.S.	TPE <sup>†</sup> .65	.80	-40°F to +250°F (-40°C to +121°C)	300 psi @ 70°F	1.43	164870 🗲
9	Stainless Steel	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 Sta	ainless Steel	Teflon®	.80	-40°F to +250°F (-40°C to +121°C)	300 psi @ 70°F	1.65	179445

<sup>†</sup>Thermoplastic Elastomer Zip Cord.

🗲 – Stock Items.

#### \*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.