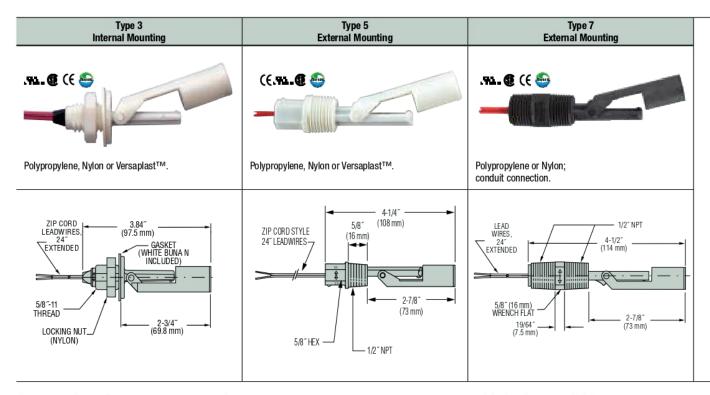


Small Size - Engineered Plastics

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.

Approvals

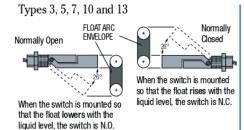
Material CE		UL Recognized File No. E45168	cUL Recognized	CSA Listed File No. 30200		
Nylon	Х	Х	Х	Х		
Polypropylene	Х	Х	Х	Х		
Noryl®	Х	Х	Х			
Versaplast™	Х	Х	Х			

Media Compatibility

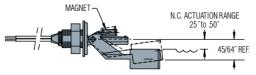
Media	LS-7 Compatible Types
Oil, Fuel, Hydrocarbons	Nylon
Broad Range of Chemicals and Water	Polypropylene
Limited Chemicals and Water	Noryl®
Oil, Antifreeze, High Temperatures, Corrosive Fluids, Various Chemicals	Versaplast™

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



Type 12 - N.C. "Drop Float" Design

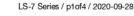


The LS-7 Type 12 is ideal for use on food warmers, hot water heaters, steam cookers, small boilers or wherever water evaporation occurs. The switch is used effectively for either high fluid level alarms or water make up systems.

Food Warmer

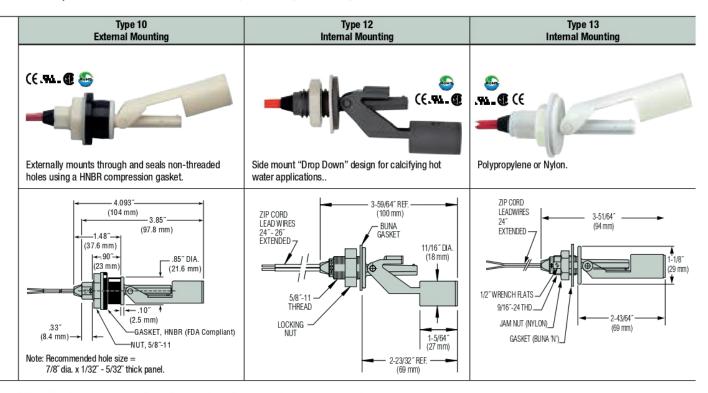
FLOAT PIVOTS STAY ABOVE WATER

Visit www.GemsSensors.com for most current information.



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

- 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	Materials*			Min.		Operating	Float	Part			
Туре	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)	100 : 0 7005		165570	1		
3	Polypropylene		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	1		
	Versap	last™	1 [.80	-40°F to +250°F (-40°C to +121.1°C)	(0.0 bar & 20 0)		182600			
	Polypro	pylene	TPE [†]	.55	-40°F to +225°F (-40°C to +107.2°C)	400 4 0 7005				131100	1
5 N	Ny	lon	IPE'	.65	-40°F to +250°F (-40°C to +121.1°C)	100 psi @ 70°F (6.8 bar @ 20°C)	1.25	140620	1		
	Versap	last™	Teflon®	.80	-40°F to +300°F (-40°C to +148.9°C)			177100	1 /		
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	Polypro	pylene	TDE	.55	-40°F to +225°F (-40°C to +107.2°C)	100 psi @ 70°F 1.50	4.50	160450	1		
′ [Ny	lon	☐ TPE [†]	.65	-40°F to +250°F (-40°C to +121.1°C)	(6.8 bar @ 20°C)	1.50	160460	1		
10	Polypropylene		TPE [†]	.55	-40°F to +225°F (-40°C to +107.2°C)	50 psi @ 70°F	2.08	165800	1		
10	Nylon	lon	IPE.	.65	-40°F to +250°F (-40°C to +121.1°C)	(3.4 bar @ 20°C)	2.00	165900			
12	Noi	yl®	TPE†	.80	-40°F to +225°F (-40°C to +107.2°C)	100 psi @ 70°F (6.8 bar @ 20°C)	.70	191080	1		
13	Polypro	pylene	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			

^{*} 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.



[†] 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

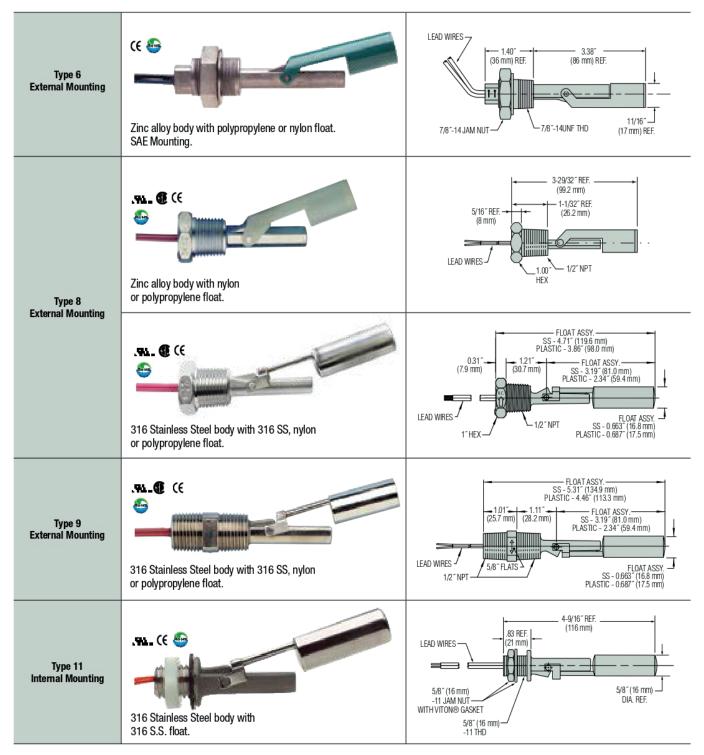
Lead Wire: 22 AWG, 24"-27" Extended

Mounting Attitude: Horizontal.

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

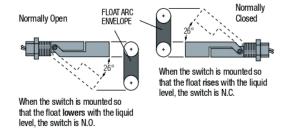
ments for chemicals and substances.

*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.



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

Mounting	Materials			Min.		Operating	Float Arc	Part
Туре	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 🗲
6 Alloy*	Alloy*	Polypropylene		.75	-40°F to +225°F (-40°C to +107°C)	100 psi @ 70°F	1.36	179870
		316 S.S.	TPE [†]	.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	74109	Polypropylene		.55	-40°F to +225°F (-40°C to +107°C)	100 psi @ 70°F	1.40	162795 🗲
	316	316 S.S.	TPE†	.80	-40°F to +250°F (-40°C to +121°C)	300 psi @ 70°F	1.43	249315
	Stainless	Nylon		.65	-40°F to +250°F (-40°C to +121°C)	100 psi @ 70°F	1.40	247390
Ste	Steel	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.

*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.