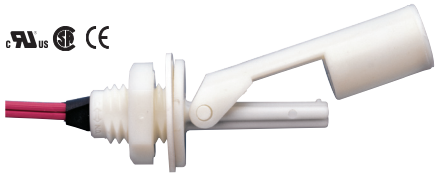
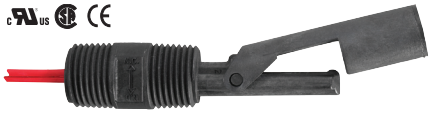
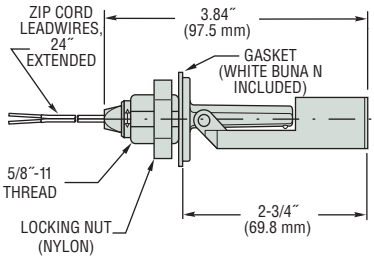
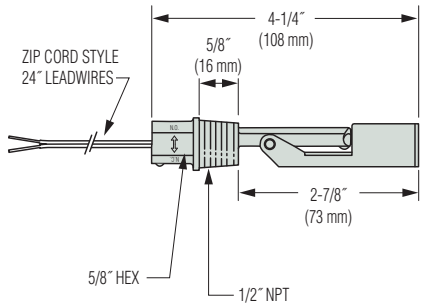
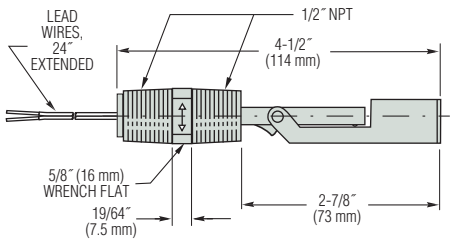
Small Size – Engineered Plastics

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.

Type 3 Internal Mounting	Type 5 External Mounting	Type 7 External Mounting
		
Polypropylene or Nylon.	Polypropylene or Nylon.	Polypropylene or Nylon; conduit connection.
		

Common Specifications

Switch Rating*: SPST, 20VA

Lead Wire Gauge: No. 22 AWG

Approvals: All LS-7 Series switches on this page are U.L. Recognized – File No. E45168, and are CSA Listed-File No. 30200. For NSF approved level switches contact Gems.

Mounting Attitude: Horizontal.

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

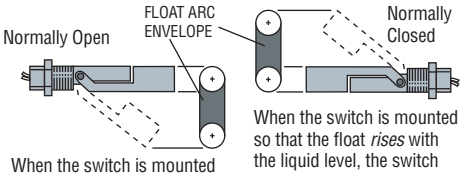
Media Compatibility

Media	LS-7 Compatible Types
Oil, Fuel, Hydrocarbons	Nylon
Broad Range of Chemicals and Water	Polypropylene
Limited Chemicals and Water	Noryl®

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).

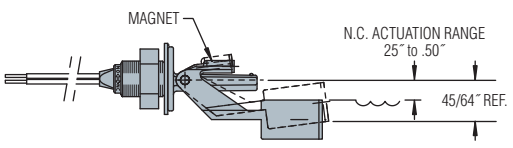
Types 3, 5, 7, 10 and 13



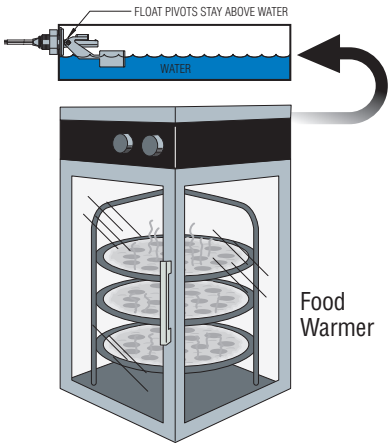
When the switch is mounted so that the float *lowers* with the liquid level, the switch is N.O.

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

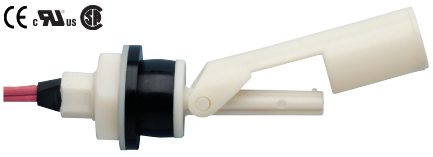
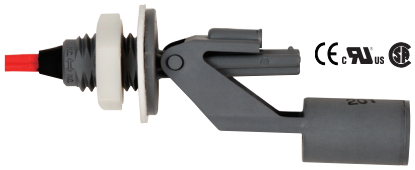
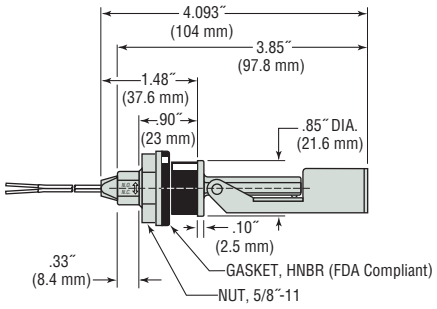
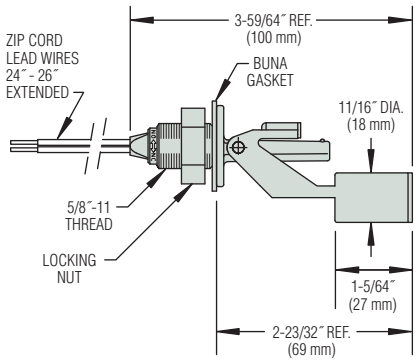
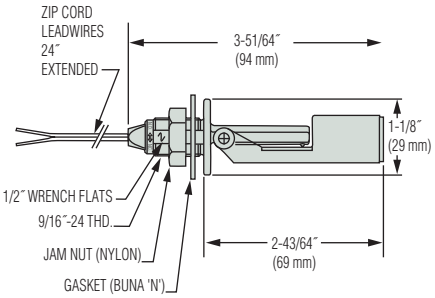
Type 12 – N.C. "Drop Float" Design



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 both NSF and WRC approval for use in potable water, and are supplied with FDA-approved Buna gaskets.



- Nylon is ideal for oils and fuels.
- NSF Standard 61 polypropylene is ideal for potable water and broad chemicals.

Type 10 External Mounting	Type 12 Internal Mounting	Type 13 Internal Mounting
		
Externally mounts through and seals non-threaded holes using a HNBR compression gasket.	Side mount "Drop Down" design for calcifying hot water applications. NSF and WRC compliant Noryl®.	Polypropylene or Nylon.
 Note: Recommended hole size = 7/8″ dia. x 1/32″ - 5/32″ thick panel.		

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

Mounting Type	Materials*		Lead Wire Jacket	Min. Liquid Sp. Gr.	Operating Temperature	Operating Pressure, Max.	Float Arc Envelope	Part Number
	Stem and Mounting	Float						
3	Nylon		TPE†	.65	-40°F to +250°F (-40°F to +121.1°C)	100 psi @ 70°F	2.20	**165570** ⚡
	Polypropylene			.55	-40°F to +225°F (-40°C to +107.2°C)			**164520** ⚡
5	Polypropylene		TPE†	.55	-40°F to +225°F (-40°C to +107.2°C)	100 psi @ 70°F	1.25	**131100** ⚡
	Nylon			.65	-40°F to +250°F (-40°F to +121.1°C)			**140620** ⚡
7	Polypropylene		TPE†	.55	-40°F to +225°F (-40°C to +107.2°C)	100 psi @ 70°F	1.50	**160450** ⚡
	Nylon			.65	-40°F to +250°F (-40°F to +121.1°C)			**160460** ⚡
10	Polypropylene		TPE†	.55	-40°F to +225°F (-40°C to +107.2°C)	50 psi @ 70°F	2.08	**165800** ⚡
	Nylon			.65	-40°F to +250°F (-40°F to +121.1°C)			**165900**
12	Noryl®		TPE†	.80	-40°F to +225°F (-40°C to +107.2°C)	100 psi @ 70°F	.70	**191080** ⚡
13	Polypropylene		TPE†	.55	-40°F to +225°F (-40°C to +107.2°C)	100 psi @ 70°F	2.20	**197050**

* Polysulfone and Ryton® R-4 are available upon request.
† Thermoplastic Elastomer Zip Cord, 22 AWG.
Note: NSF C2 Versions available. Contact factory.

See alloy versions on next page.

⚡ – Stock Items.