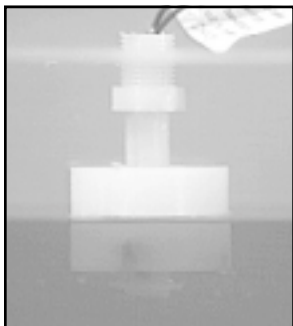
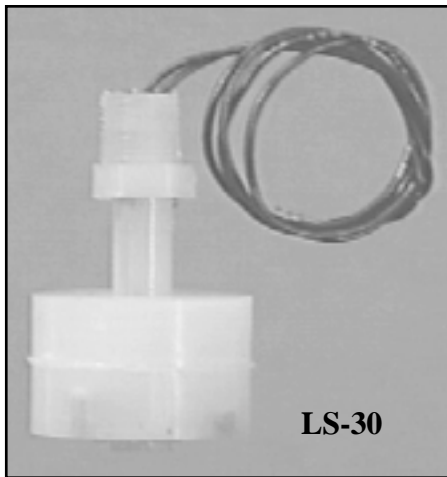


## Vertical and Side Mounting Single Point Liquid Level Switch

The LS-30 liquid level switch is a vertically mounted level switch with a vertically traveling float. The LS-31 liquid level switch is a horizontally mounted level switch with a vertically traveling float. The LS-30 and the LS-31 are specially designed to address those hard to handle inductive loads found in electromagnetic devices such as solenoid valves.

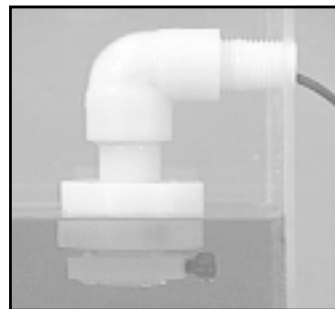
### Typical Applications

- Maintains a constant liquid level by directly controlling a solenoid valve.
- High alarm switch to control panel lights, strobes and alarm horns.
- High level cut off switch that can directly control most single phase load contactors.



### Operation

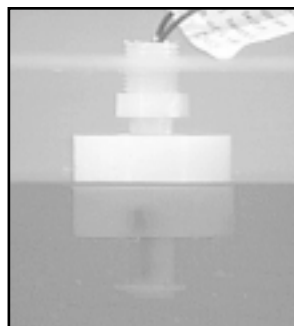
When the liquid level is at or below the float. The switch is **OPEN**. The circuit is not complete.



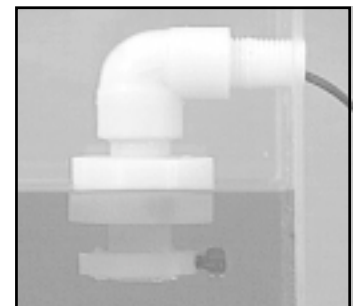
### Operation

When the float is resting on the stop ring. The switch is **OPEN**. No current flows. Note: 1/2" nipple not incl.

When the float is lifted by the liquid level, the switch is **CLOSED**. Current flows.

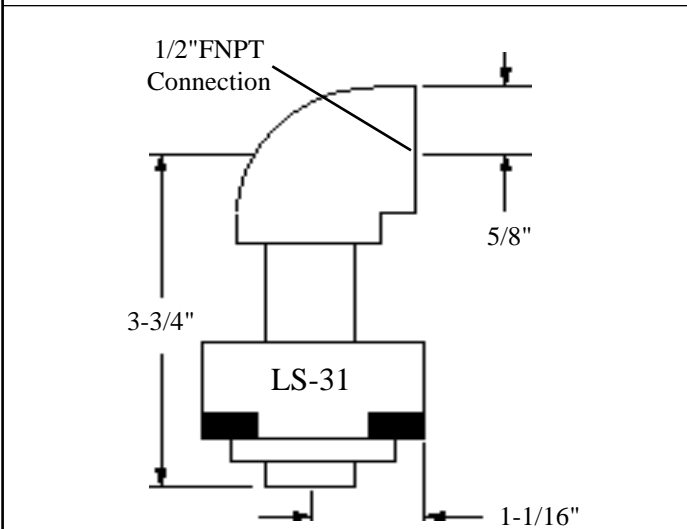
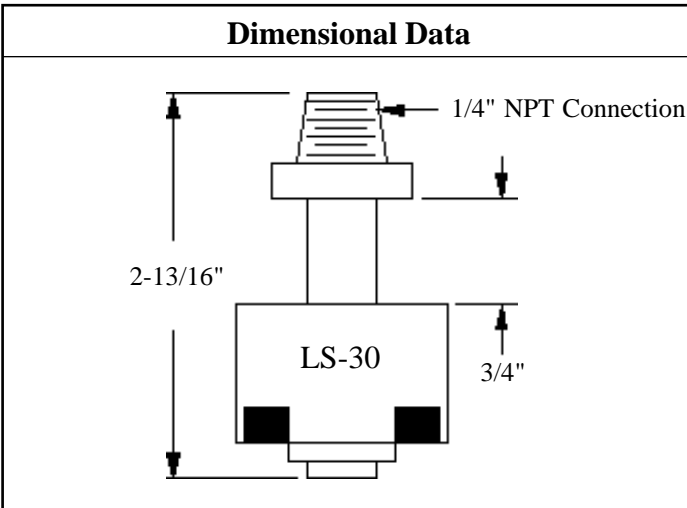


When the float lifts off the stop ring. The switch is **CLOSED**. Current flows.

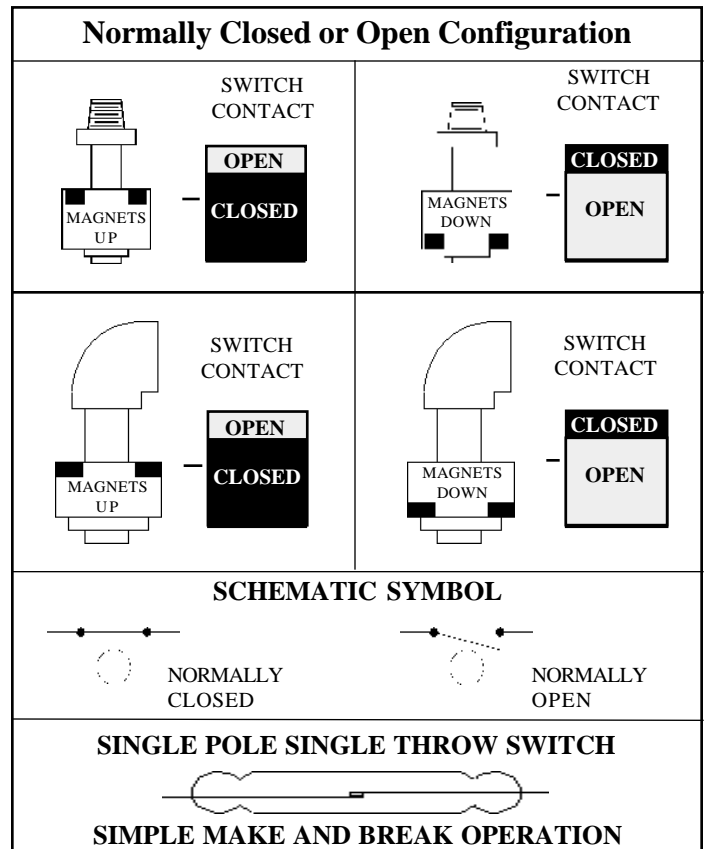


**Safe and Reliable Switch Selection** - In selecting a level switch, the total system design must be considered to assure safe, trouble-free performance. Switch function, material compatibility, adequate power ratings, proper installation, operation and maintenance are the responsibility of the system designer and user. Please feel free to ask for a copy of our Product Warranty.

LS-30 and LS-31 Switch Specifications		MAX. RECOMMENDED LOADS										
<p><b>WET END MATERIAL:</b> Polypropylene (PP). Polyvinylidene Fluoride (PVDF).</p> <p><b>BUOYANCY:</b> 50% for Polypropylene, 30% for Polyvinylidene Fluoride.</p> <p><b>OPERATING TEMPERATURE VS. PRESSURE</b></p> <table style="width: 100%; border: none;"> <tr> <td style="padding-right: 20px;">POLYPRO</td> <td>PVDF</td> </tr> <tr> <td>70° F, 60 psi</td> <td>70° F, 60 psi</td> </tr> <tr> <td>140° F, 30 psi</td> <td>150° F, 30 psi</td> </tr> <tr> <td>180° F, 0 psi</td> <td>230° F, 0 psi</td> </tr> </table>	POLYPRO	PVDF	70° F, 60 psi	70° F, 60 psi	140° F, 30 psi	150° F, 30 psi	180° F, 0 psi	230° F, 0 psi	<p><b>MOUNTING ATTITUDE:</b> Vertical +/- 30 degrees in clean liquid.</p> <p><b>SWITCH / TANK CLEARANCE:</b> Flush in clean liquid. Three inches from the bottom of the tank in precipitate or sediment bearing liquids.</p> <p><b>WIRE:</b> LS-30 - UL 1061 PVC coated solid single strand standard. LS-31 - 2 wire 18 AWG stranded PVC wrapped.</p>	VOLTS	DC (AMPS)	AC (AMPS)
POLYPRO	PVDF											
70° F, 60 psi	70° F, 60 psi											
140° F, 30 psi	150° F, 30 psi											
180° F, 0 psi	230° F, 0 psi											
		5	3	3								
		12	3	3								
		24	3	3								
		48	2	2								
		120	.83	1								
		200	.5	.6								
		230	N/R	.5								
		Maximum inrush should not exceed 6 times that of the chart values for a specific voltage. Do not try to directly operate coils larger than 58 Watts.										



Custom configuration and construction are available for the LS-31. Please feel free to fax us a quick sketch of your needs.



PART NUMBER	WET END MATERIAL
LS-30P-0000	PP
LS-30F-0000	PVDF
LS-30P-0120 <sup>1</sup>	PP
LS-30F-0120 <sup>1</sup>	PVDF
LS-31P-0120 <sup>1</sup>	PP
LS-31F-0120 <sup>1</sup>	PVDF

1. "0120" denotes 120 in. long switch wire leads. 12 inch long 20 AWG lead is standard on the "0000" model.