LVF Series

Vertical Float Switch Level Sensors

LVF Series vertical liquid level sensors, also called fluid sensor or float switch, are mechanical devices that monitor liquid levels inside a container. In typical applications, a vertical liquid level sensor triggers an action, or warning, when the liquid reaches a certain level. The sensors are made up of two main components: a center tubed float and a reed switch, both operated by magnets. When the float reaches a predetermined level, the reed switch reacts by closing or opening a circuit. These types of sensors are often used in appliance, industrial liquid / storage tank monitoring, HVAC and fluid management applications.



- No standby power required
- Compact and robust construction
- High consistency and long electrical lifespan
- -40℃ to 160℃ temp range (material-dependent)
- Multiple float and stem materials available
- Vertical mounting design
- Custom stem lengths, cable types and threads available (MOQ dependent)
- High voltage option up to 1000V

Specifications & Materials:

Sensor Type	Float / Level
Orientation	Vertical (Float Up or Down)
Stem Material	Plastic (PA/PP) / Metal (Stainless Steel)
Float Material Options	PP (Water / Dilute Acids) / PA (Oil) / NBR (Gasoline) / SS (High Temp)
Recommended Liquid Density	≥ 0.75 g/cm³
Float Specific Gravity (Typical)	0.65 - 0.85 (Material Dependent)
Ingress Protection	IP67
Mounting Thread	Metric / BSP / NPT
Number Of Switch Points	1 / 2 / 3...
Switch	Normally Open (NO) / Normally Closed (NC) / Changeover (CO)
Operating Temperature Range	-20℃ to +80℃ (Plastic) / -40℃ to +160℃ (Stainless Steel)
Hysteresis	2mm - 6mm Typical
Vibration Resistance	20g
Shock Resistance	50g
Cable Material	PVC (Standard) / Teflon (Optional)
ROHS Status	Compliant

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Electrical Specifications:

	Low Voltage	High Voltage
Rated Power	10W	100W
Switch Voltage	180V	1000V
Switch Current	0.5A	1A
Carry Current	1.25A	2.5A
Contact Resistance	150mΩ	
Insulation Resistance	≥100 MΩ @ 500VDC	
Dialectric Strength	1500VAC / 60s	2500VAC / 60s
Electrical Life	≥1 x 10^5 Operations (Resistive Load)	

Part Number Configurator:*

				Example:	LVF	A	1	1	3	52	NO	L	35
Series:	LVF												
Material Type:	A - Polypropelene (PP) B - Polyphenylene Sulfide (PPS) C - Polyamide (PA)		D - Polyvinyl Chloride (PVC) E - Stainless SUS304 F - Stainless SUS316										
Switch Points:	1 / 2 / 3 etc.												
Floats:	1 / 2 / 3 etc.												
Thread:	1 - M6 2 - M8 3 - M10	4 - M12 5 - M16 6 - 1/8NPT	7 - 1/2NPT 8 - 1/8BSP 9 - G1/2BSP										
Arm Length (mm):	xxx												
Switch Output:	NO - Normally Open	NC - Normally Closed	CO - Changeover										
Voltage:	L - Low Voltage	H - High Voltage											
Cable Length (cm):	xxx												

LVFA113-52-NOL-35 : Vertical Float Switch, Polypropelene, 1 Switch Point, 1 Float, M10 Thread, 52mm Arm, Normally Open, Low Voltage, 35cm Cable

*All options available on request, MOQ dependendent.
Please contact us with your requirements for more details.

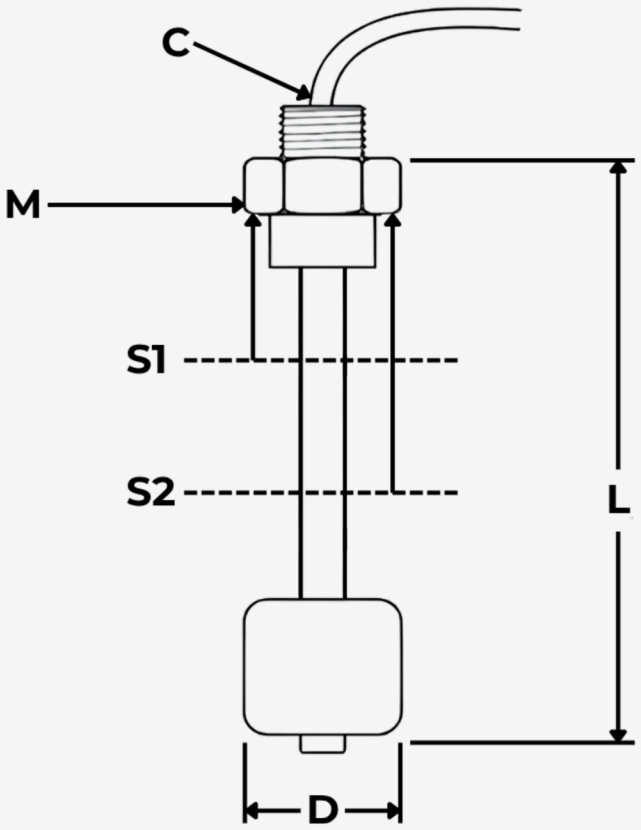
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Dimensional Examples:

Part Number	Cable Length (C mm)	Float Diameter (D mm)	Stem Length (L mm)	Thread Size (M)	Switch Point 1 (S1 mm)	Switch Point 2 (S2 mm)
LVFD114-65-NOL-50	500	24	65	M12	26	-
LVFD118-65-NOL-100	1000	24	65	⅛ BSP	26	-
LVFA113-52-NOL-35	350	24	52	M10	17.5	-
LVFA113-73-NOL-35	350	24	73	M10	25	-
LVFA113-94-NOL-35	350	28	94	M10	25	-
LVFA213-115-NOL-30	300	28	115	M10	30	75

LVF Dimensions

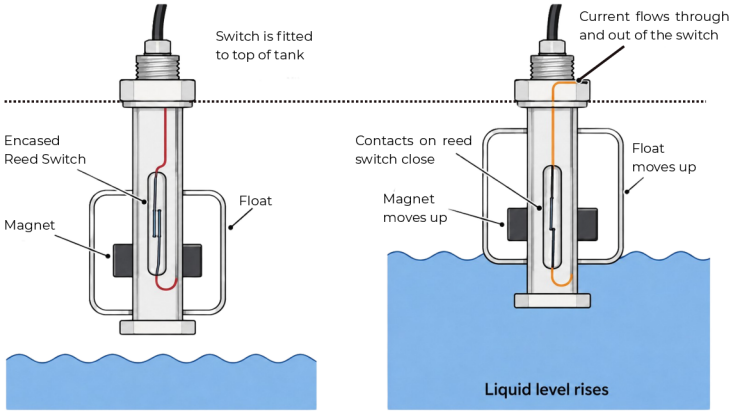


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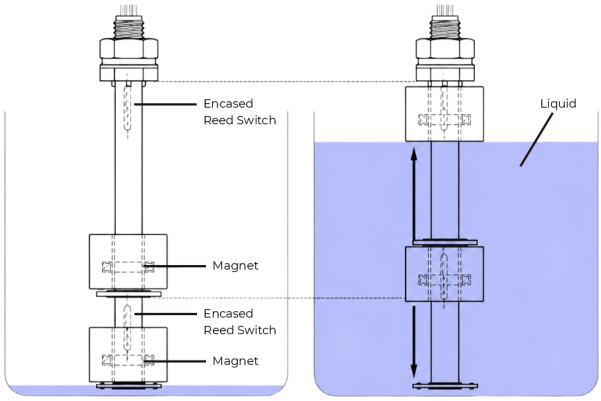
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Application Notes / Examples:

Single Float Switch



Double Float Switch

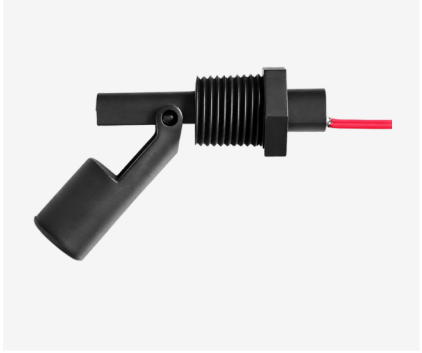


When the switch is OPEN
the magnets do not impact
the reed switches.

When the switches are CLOSED
the magnets have a direct impact
on the reed switches.

Also available

LHF Float Switch (Plastic)



LHF Float Switch (Stainless)



LHVF Float Switch

