

Liquid Level Float Switches Top and Side Mount

Features

- Compact size
- Low cost
- Stainless steel or polypropylene

We offer two basic types of liquid level float switches, top and side mounted. Made from stainless steel and polypropylene they are designed to withstand the most difficult environments.



Applications

- Chemical processing
- Petrochemical
- Food and beverage
- Marine applications

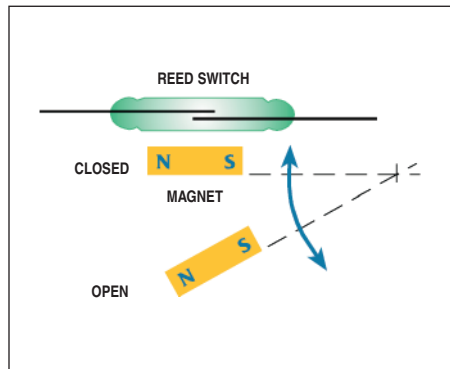
How They Work

A normally open reed switch is standard for all catalog items. With a few exceptions the float position can be reversed in the field to allow for normally closed operation.

Our horizontal switches utilize a small permanent magnet in the pivoting arm while the reed switch is located in the stationary stem. Our vertically

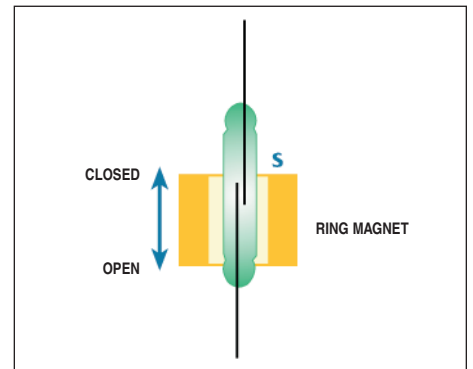
oriented floats utilize a ring magnet in the cylindrical float with the reed switch mounted in the center stem.

The engagement of the switch activates alarms or lights, or sends a signal to a controller that activates a pump, valve or other similar level-controlling device.



Horizontal switch

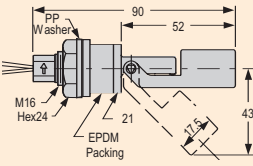
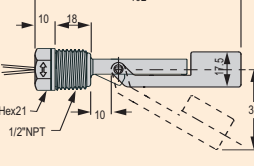
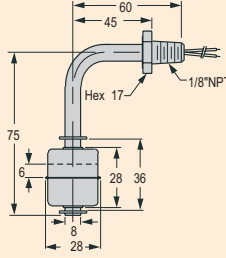
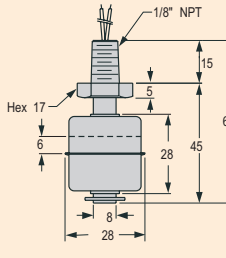
In horizontal switches, a magnet inside the float activates the reed switch.

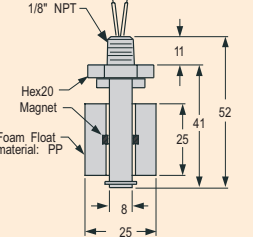
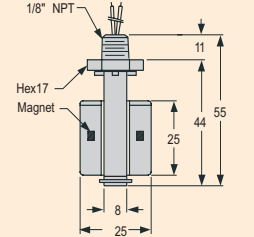
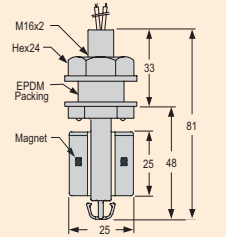
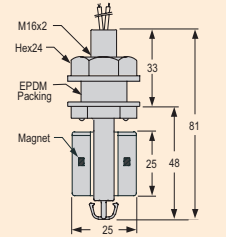


Vertical switch

In vertical switches, a ring magnet inside the float activates the reed switch.

Specifications

Model	RF-OH21	RF-OH41	RF-3002D	RF-3001D
Dimensions (mm)				
Material	Polypropylene	Polypropylene	Stainless steel 316	Stainless steel 316
Max. temperature	-4°F to 176°F	-4°F to 176°F	14°F to 248°F	14°F to 248°F
Max. pressure	60 psig	60 psig	150 psig	150 psig
Switch capac. max./type	50 W / SPST	50 W / SPST	50 W / SPST	50 W / SPST
Switching voltage max.	240 VAC / 200 VDC	240 VAC / 200 VDC	240 VAC / 200 VDC	240 VAC / 200 VDC
Switching current max.	0.5 A	0.5 A	0.5 A	0.5 A
Carry current max.	1 A	1 A	1 A	1 A
Connection	M16 / Hex24	1/2" NPT	1/8" NPT	1/8" NPT
Wire material	XLPE AWG22 (30 cm)	XLPE AWG22 (30 cm)	XLPE AWG22 (30 cm)	XLPE AWG22 (30 cm)
Suitable specific gravity	0.75	0.65	0.8	0.8
Reversible switch action*	**	**	YES	YES

Model	RF-OV21D	RF-OV31D	RF-OV41D	RF-OV51D
Dimensions (mm)				
Material	Polypropylene-foam float	Polypropylene-hollow float	Polypropylene-hollow float	Polypropylene-foam float
Max. temperature	-4°F to 176°F	-4°F to 176°F	-4°F to 176°F	-4°F to 176°F
Max. pressure	ATM	60 psig	60 psig	ATM
Switch capac. max./type	50 W / SPST	50 W / SPST	50 W / SPST	50 W / SPST
Switching voltage max.	240 VAC / 200 VDC	240 VAC / 200 VDC	240 VAC / 200 VDC	240 VAC / 200 VDC
Switching current max.	0.5 A	0.5 A	0.5 A	0.5 A
Carry current max.	1 A	1 A	1 A	1 A
Connection	1/8" NPT	1/8" NPT	M16 / Hex24	M16 / Hex24
Wire material	PVC AWG22 (30 cm)	PVC AWG22 (30 cm)	PVC AWG22 (30 cm)	PVC AWG22 (30 cm)
Suitable specific gravity	0.8	0.7	0.7	0.7
Reversible switch action*	YES	YES	YES	YES

* If YES — switch operation is reversible by inverting the float. Units are shipped normally open (N.O.) unless otherwise specified.

** Normally open condition shown above. Rotate switch 180° for normally closed (N.C.) operation.