



HORIZONTAL BUOYANCY LEVEL SWITCH



- Horizontal buoyancy switch installs through the tank side wall in standard 3/4" fittings
- Baffle body dampens switch chatter caused by agitation and turbulence
- All plastic construction with PP wetted materials for corrosive environments
- Dynamically stabilized and weighted float resists most process turbulence
- Sensor and cable rated IP68 for submersible operation in tanks or sumps
- Reliable reed switch output for interface with PLC or relay control devices
- Selectable normally open or normally closed output states



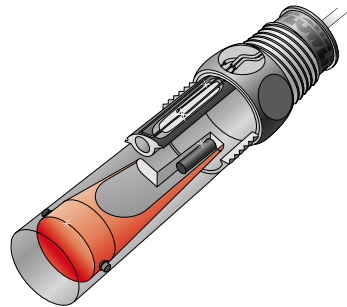
The horizontal buoyancy switch consists of a float, magnet, reed switch and baffle body which dampens turbulence and eliminates the negative effects of switch chatter. When the probe is dry, the float rests on the bottom of the baffle body such that the magnet does not influence the reed switch. As the probe becomes immersed in liquid, the float becomes buoyant and the magnet elevates causing the reed switch to change state.

SPECIFICATIONS

Accuracy: ± 2 mm in water
 Repeatability: ± 1 mm in water
 Extreme orient.: ± 20° from horizontal
 Specific gravity: 0.8 minimum
 Reed type: Dry contact, SPDT
 Reed rating: Buoyancy: 120 VAC, 120 VDC @ 15 VA, 30 Vrms and 42.2 Vpeak or 60 Vdc
 Reed CE rating: Selectable NO or NC states
 Reed output: F: -40° to 194° C: -40° to 90°
 Temp. rating: 25 psi (2 bar) @ 25 °C., derated @ 1.667 psi (.113 bar) per °C. above 25 °C.
 Pressure rating: Sensor material: PP
 Sensor rating: NEMA 6 (IP68)
 Mount' threads: 3/4" NPT (3/4" G)
 Mounting gasket: 3/4" Viton (metric only)
 Cable type: 8 ft. (2.5 m), 3-wire, 22 gauge with ground, shield & PP or PFA jacket

APPLICATION

The horizontal buoyancy level switch mounts through the tank's side wall and is an excellent choice for a broad range of liquids relatively clean, non-coating or non-scaling type liquids. The reed output provides a reliable switch interface with remote devices such as PLC, SCADA or alarm. The general purpose sensor features a PP submersible probe and cable, and is designed for fast installation.



General Purpose	Yes	Reed	Yes
Foam	Yes	PP sensor	Yes
Bubbles	Yes	PVDF sensor	No
Conductive	Yes	Intrinsically safe	No
Non-conductive	Yes	Dirty	No
Clean	Yes	Relay	No
Turbulent	Yes	FET	No
Non-coating	Yes	Light coating	No
Metallic tank	Yes	Medium coating	No
Non-metallic tank	Yes	Heavy coating	No

Approvals

CE compliance: EN 50082-2 immunity
 EN 55011 emission

Buoyancy Level Switch		STARTS FROM
LH10 - 13 <input type="checkbox"/> 1		\$ 85
Mounting Thread (1) (2) └─┘ 0 - 3/4" NPT 2 - 3/4" G (add \$5)		Add \$ _____
		Total \$ _____

To special order a 25' or 50' sensor cable, place the cable length at the end of the part number (ex: LH10-1301-25') and add the following: 25' add \$15.00 for PP or \$50.00 for PFA; 50' add \$30.00 for PP or \$100.00 for PFA.