



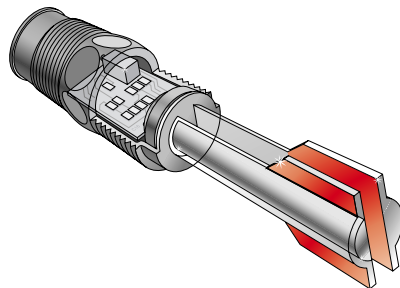
TUNING FORK LEVEL SWITCH

- The switch solution for more challenging coating, scaling or slurry type liquids
- All plastic construction with PP/Ryton® material for corrosive environments
- Application with non-hazardous, light weight solids including grains and pellets
- Sensor and cable rated IP68 for submersible operation in tanks or sumps
- Relay or FET switch output for interface with PLC, SCADA or alarms
- Selectable normally open or normally closed output states

APPLICATION

The tuning fork level switch is an excellent choice for more challenging application liquids including those with light to medium coating or scaling type characteristics. The relay or FET output provides a reliable switch interface with remote devices such as a PLC, SCADA or alarm. The general purpose sensor features a PP submersible probe and cable, and is designed for installation through the wall or inside the tank.

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



The tuning fork switch vibrates at a nominal frequency of 400 Hz. As the switch becomes immersed in a liquid or slurry, a corresponding frequency shift occurs. When the measured frequency shift reaches the set point value, the switch changes state indicating the presence of a liquid or slurry medium.

SPECIFICATIONS

Accuracy:	± 1 mm in water
Repeatability:	± .5 mm in water
Frequency:	400 Hz. (nominal)
Supply voltage:	12-36 VDC
Consumption:	Relay: 25 mA FET: 8 mA (dry) 19 mA (wet)
Relay rating:	60 VDC/VAC @ 1A
FET rating:	36 VDC @ 100 mA
Switch output:	Selectable NO or NC states
Temp. rating:	F: -40° to 194° C: -40° to 90°
Pressure rating:	150 psi (10 bar) @ 25 °C., derated @ 1.667 psi (.113 bar) per °C. above 25 °C.
Sensor material:	PP / Ryton® (40% glass)
Sensor rating:	NEMA 6 / IP68
Mounting threads:	3/4" NPT (3/4" G)
Mounting gasket:	3/4" Viton (metric only)
Cable type:	8 ft. (2.5 m), 4-wire (relay) or 3-wire (FET), 22 gauge with ground, shield & PP jacket
CE compliance:	EN 50082-2 immunity EN 55011 emission



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This document is provided for reference and is believed to be accurate at the time of publication. However, Flowline reserves the right to change the product specifications at any time without notice. Additional information may be obtained on the Internet at <http://www.flowline.com> or by contacting Flowline.

Tuning Fork Level Switch		STARTS FROM
LZ10 - 14 <input type="checkbox"/> <input type="checkbox"/>		\$ 270
Mounting Thread (1)	<input type="checkbox"/>	Add \$ _____
0 - 3/4" NPT		
2 - 3/4" G (add \$5)		
Switch Output (2)	<input type="checkbox"/>	Add \$ _____
2 - FET, N-channel		
3 - FET, P-channel		
5 - Relay, SPDT (add \$20)		
		Total \$ _____

To special order a 25' or 50' sensor cable, place the cable length at the end of the part number (example: LZ10-1402-25') and add the following: 25' add \$15.00; 50' add \$30.00.

The G thread switch comes with a 3/4" Viton mounting gasket.

LEVEL SUPERSTORE