



SUPERGUARD™ CAPACITANCE LEVEL SWITCH

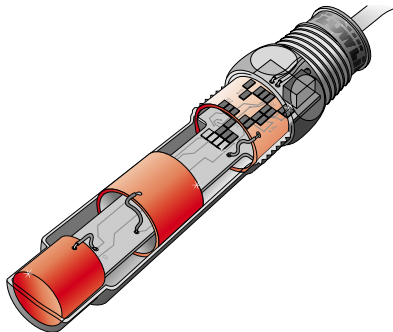


- The switch solution for conductive, light to medium coating and scaling liquids
- New guard circuit eliminates the negative effects of build-up on the probe
- All plastic construction with PP material for corrosive environments
- Sensor and cable rated IP68 for submersible operation in tanks or sumps
- Relay or FET switch output for interface with PLC, SCADA or alarms
- Selectable normally open or normally closed switch states

APPLICATION

The SuperGuard™ capacitance level switch is an excellent choice for a wide range of conductive liquids including those with light to medium coating or scaling types 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	PP sensor	Yes
Foam	Yes	Long sensor	Yes
Bubbles	Yes	Relay	Option
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	Non-conductive	No
Metallic tank	Yes	Heavy coating	No
Non-metallic tank	Yes		



The SuperGuard™ RF capacitance switch detects the presence of liquid or air by measuring the conductive or dielectric values which are present in all materials. The guard circuit rejects the negative effects of coating build-up on the probe by eliminating the coating signal path between the active and reference electrodes. As the probe tip becomes immersed in liquid, the capacitance effect is greatly increased and the FET switch changes state.

SPECIFICATIONS

Accuracy:	± 1 mm in water
Repeatability:	± .5 mm in water
Dielectric range:	> 20 constants
Conductive range:	>100 micromhos
Supply voltage:	12-36 VDC
Consumption:	Relay: 25mA FET: 5mA (dry) 19mA (wet)
Relay rating:	60 VAC/VDC @ 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:	Polypropylene
Sensor rating:	NEMA 6 (IP68)
Mounting threads:	3/4" NPT (3/4" G)
Mounting gasket:	Viton (3/4") metric
Cable type:	8 ft. (2.5 m), 4-wire (relay) or 3-wire (FET), 22 gauge with ground, shield & PP or PFA jacket
CE compliance:	EN 50082-2 immunity EN 55011 emission

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.

Capacitance Level Switch		STARTS FROM
LP15 - 14 <input type="checkbox"/> <input type="checkbox"/>		\$ 230
Mounting Thread (1)		Add \$ _____
0 - 3/4" NPT		
2 - 3/4" G (add \$5)		
Switch Output (2)		Add \$ _____
2 - FET, N-channel		
3 - FET, P-channel		
5 - Relay, SPDT (add \$20)		
		Total \$ _____

To order a 25' or 50' sensor cable, place the cable length at the end of the part number (ex: LP15-1402-25') and add the following: 25' add \$15.00; 50' add \$30.00.

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