

Switch-Tek™ SuperGuard™ Capacitance Switch

Switch-Tek SuperGuard Cap LP15 0412 DS2_1

Features

- ✓ Rugged PP sensor and cable rated NEMA 6 or IP68
- ✓ 1A relay selectable NO or NC via power supply wiring polarity
- ✓ Compatible with Flowline alarm, controller and fitting accessories

Specifications

Orientation:	Universal
Accuracy:	± 1 mm in water
Repeatability:	± 0.5 mm in water
Dielectric range:	> 20 constants
Conductive range:	> 100 micromhos
Supply voltage:	12-36 VDC
Consumption:	25 mA maximum
Contact type:	(1) SPST relay
Contact rating:	60 VA
Contact output:	Selectable NO/NC
Process temp.:	F: -40° to 194° C: -40° to 90°
Pressure:	150 psi (10 bar) @ 25° C., derated @ 1.667 psi (.113 bar) per °C. above 25° C.
Sensor rating:	NEMA 6X (IP68)
Sensor material:	PP
Cable jacket mat.:	PP
Cable type:	4-conductor, #22 AWG (shielded)
Cable length:	Standard: 10' (3m) Special order: 25' (7.6m) or 50' (15.2m)
Process mount:	3/4" NPT (3/4" G / Rp)
Mount. gasket:	Viton® (G version only)
Classification:	General purpose
CE compliance:	EN 50082-2 immunity EN 55011 emission EN 61010-1 safety



Description

The general purpose guard capacitance level switch is a great choice for a wide range of aqueous based conductive liquids including those with light coating, crystallizing or scaling characteristics. Media examples include copper sulfate and brine. The 1A relay provides a reliable switch interface with remote devices such as a PLC, SCADA or alarm. The submersible sensor is universally mounted through the wall or inside the tank. The capacitance switch has a unique RF guard circuit which eliminates the coating signal path between the active and reference electrodes. For best performance in coating type liquids, install the sensor horizontally through the side wall of non-metallic tanks.

SuperGuard Ordering

LP15-14 5

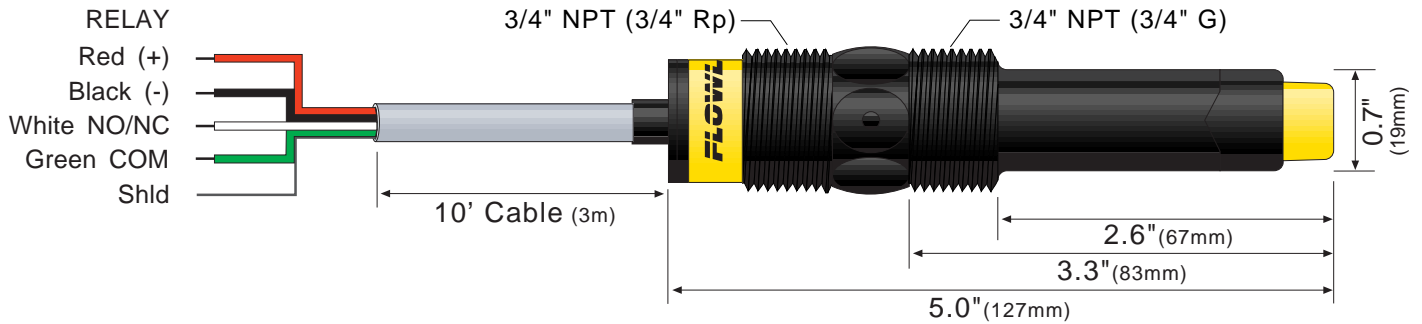
Process mount (1) (2) (3)
0 3/4" NPT (US)
2 3/4" G / Rp (Metric)

Ordering Notes

- 1) The Metric sensor is offered with straight G threads on the sensing side and conical Rp threads on the cable side of the wrench flat.
- 2) The straight G thread version seals with an included Viton® mounting gasket.
- 3) To special order a 25' (7.6m) or 50' (15.2m) sensor cable, place the cable length at the end of the part number (ie: LP15-1405-25').

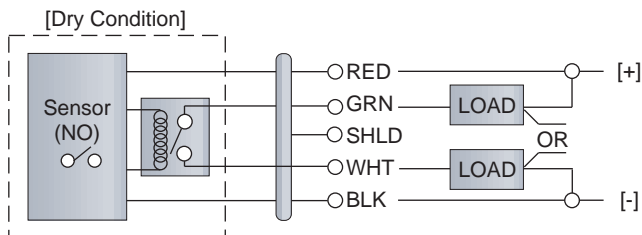
Switch-Tek™ SuperGuard™ Capacitance Switch

LP10 Long Version



Specifications are subject to change without notice.

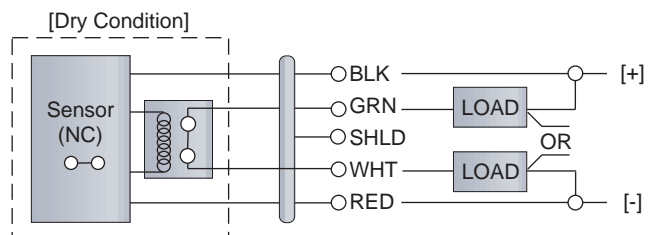
NO Output - DC Powered Load



SENSOR POWER
[RED & BLK Wires]
36 VDC Max.
5-1 mA Dry
19-1 mA Wet

RELAY RATING
[GRN & WHT Wires]
60 VA Max.

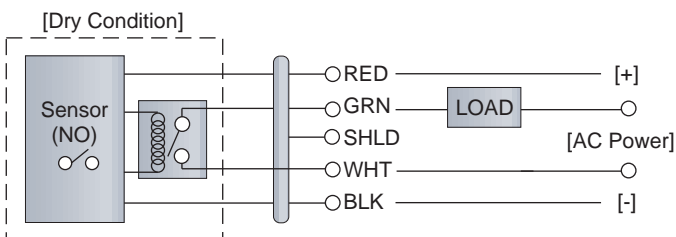
NC Output - DC Powered Load



SENSOR POWER
[RED & BLK Wires]
36 VDC Max.
19-1 mA Dry
5-1 mA Wet

RELAY RATING
[GRN & WHT Wires]
60 VA Max.

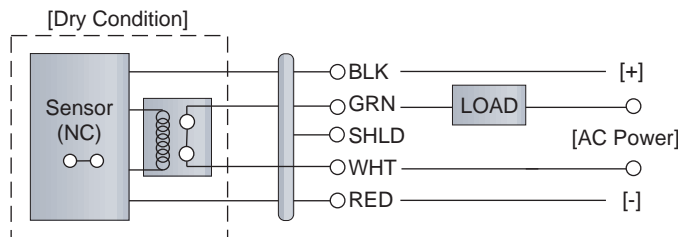
NO Output - AC Powered Load



SENSOR POWER
[RED & BLK Wires]
36 VDC Max.
5-1 mA Dry
19-1 mA Wet

RELAY RATING
[GRN & WHT Wires]
60 VA Max.

NC Output - AC Powered Load



SENSOR POWER
[RED & BLK Wires]
36 VDC Max.
19-1 mA Dry
5-1 mA Wet

RELAY RATING
[GRN & WHT Wires]
60 VA Max.