

# Switch-Tek™ Intrusive Capacitance Switch

Switch-Tek Intrusive Cap LP10 0412 DS2\_1

## Features

- ✓ PP or PFA Teflon® sensor and cable rated NEMA 6 or IP68
- ✓ Available in short and long sensor lengths for flexible installation
- ✓ 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 6 (IP68)
Sensor material:	1__5: PP 2__5: PFA Teflon®
Cable jacket mat.:	1__5: PP 2__5: PFA Teflon®
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 intrusive capacitance level switch is an excellent choice for a wide range of relatively clean, aqueous based conductive liquids with non-coating and/or scaling characteristics. Media examples include hydrogen peroxide and chromic acid. 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.

## Capacitance Ordering

LP10-□□□5

### Sensor material (1)

- 1 PP
- 2 PFA

### Sensor length

- 3 Short
- 4 Long

### Process mount (2) (3)

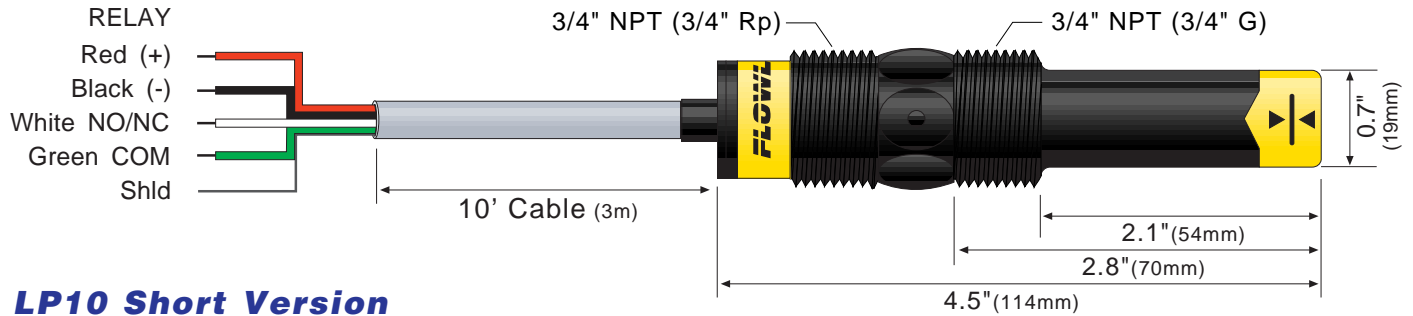
- 0 3/4" NPT (US)
- 2 3/4" G / Rp (Metric)

### Ordering Notes

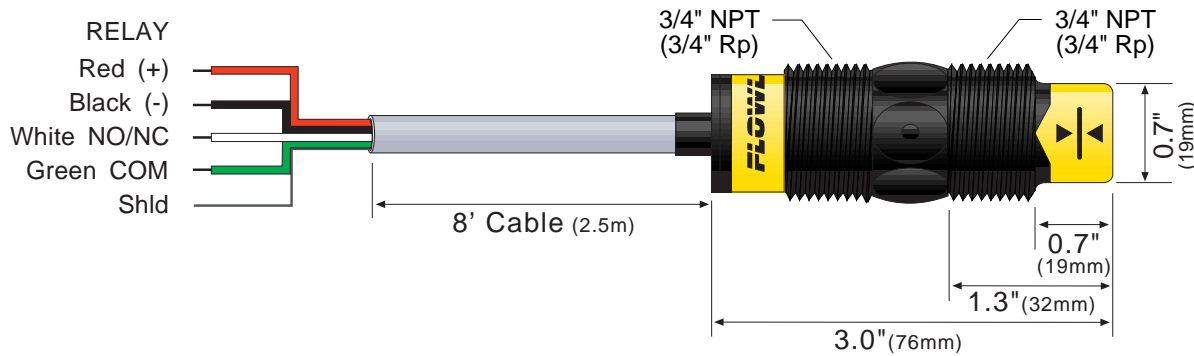
- 1) To special order a 25' (7.6m) or 50' (15.2 m) sensor cable, place the cable length at the end of the part number (ie: LP10-1305-25').
- 2) The short Metric sensor is offered with conical Rp threads on both sides of the wrench flat. The long Metric sensor is offered with straight G threads on the sensing side and conical Rp threads on the cable side of the wrench flat.
- 3) The straight G thread version seals with an included Viton® mounting gasket.

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## LP10 Long Version

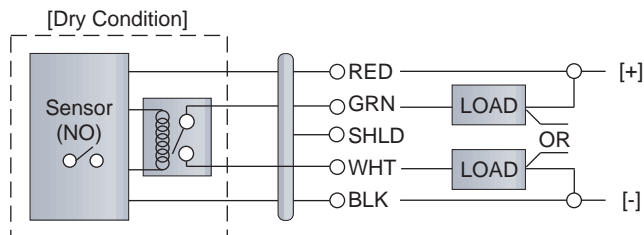


## LP10 Short Version



Specifications are subject to change without notice.

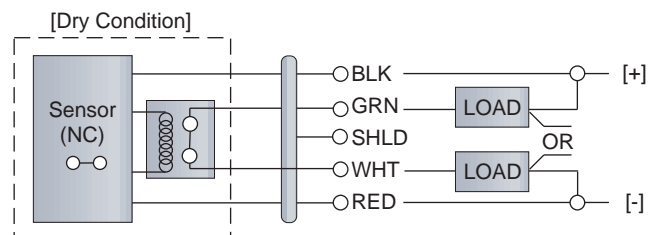
## NO Output - DC Powered Load



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

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

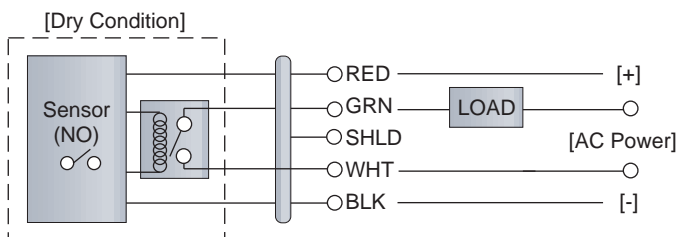
## NC Output - DC Powered Load



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

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

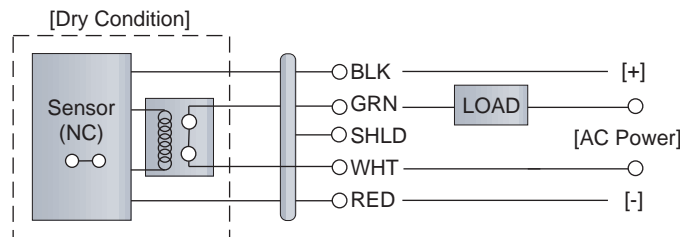
## NO Output - AC Powered Load



**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.