Switch-Tek™ LP15

Capacitance Liquid Level Switch

Application

The general purpose guard capacitance point level switch provides high or low liquid level detection of water based conductive liquids with light coating, crystallizing or scaling characteristics with a 1A relay output. Media examples include copper sulfate and brine. For best performance, install the sensor vertically and the RF guard eliminates the coating signal path between the active and reference electrodes. The submersible PP liquid level sensor can be mounted inside the tank or through non-metallic tank walls as a high level alarm or low level alarm.



Features

- Guard circuit optimizes performance in coating type media
- Submersible PP sensor body and cable for corrosive liquids
- 60VA SPST relay selectable NO or NC via power supply wiring polarity
- Compatible with Switch-Pak fitting for vertical tank installation

Key Benefits

- Ideal for use as a high or low level switch in general purpose applications
- Well suited for use in corrosive liquids

Compatible Products



LC4X

SWITCH-PRO™

Remote Level Controller

The general purpose remote level controller is offered in three configurations for pump and valve control. The LC40 accepts one level sensor input and provides one 10A relay. The LC41 accepts two level sensor inputs and provides one latching 10A relay for automatic fill or empty control. The LC42 accepts three level sensor inputs with one latching 10A relay output for automatic fill or empty control, and a second non-latching 10A relay for high or low level alarm. For field mount installation, add a single or dual indicator NEMA box.



LC1X

SWITCH-PRO™

Compact Level Controller

The general purpose compact level controller is offered in two configurations for pump and valve control. The LC10 accepts one level sensor input and provides one 16A relay for high level control or low level control. The LC11 accepts two level sensor inputs and provides one latching 16A relay for automatic fill or empty control. The optional flash alarm brings attention to alarm conditions. Package this level controller with our liquid level switch sensors and fittings.

Switch-Tek™ LP15

Capacitance Liquid Level Switch

FLOWLINE™ LEVEL BEST

Specifications

Orientation:	Universal
Accuracy:	± 1mm in water
Repeatability:	± 0.5mm in water
Dielectric range:	> 20 constants
Conductive range:	> 100 µ
Supply voltage:	12-36 VDC
Consumption:	25 mA maximum
Contact type:	(1) SPST relay
Contact rating:	60 VA, 1A maximum
Contact output:	Selectable NO / NC
Process temp.:	F: -40° to 176°
	C: -40° to 80°
Pressure:	150 psi (10 bar) @
	25° C, derated @ 1.667
	psi (0.113 bar) per °C
	above 25° C
Sensor rating:	NEMA 6 (IP68)
Sensor material:	Polypropylene
Cable jack. mat.:	Polypropylene
Cable type:	4-conductor, shielded, #22
	AWG
Cable length:	10' (3m)
Process mount:	3/4" NPT (3/4"" G / Rp)
Mount. gasket:	Viton®
Classification:	General purpose
Compliance:	CE

Dimensions



Fittings







P/N	DESCRIPTION
Switch-Pak™ Fitting Components	
LM45-7001	2" NPT plug fitting, 3/4" NPT nipple, PVC
LM45-1001	2" NPT plug fitting, 3/4" NPT nipple, PP
LM45-5001	2" NPT plug fitting, 3/4" NPT nipple, PVDF
Smart Trak™ Fitting Components	
LM10-1201	2' track, 2" NPT plug fitting, 3/4" NPT nipple, PP
LM10-1401	4' track, 2" NPT plug fitting, 3/4" NPT nipple, PP
LM10-1601	6' track, 2" NPT plug fitting, 3/4" NPT nipple, PP
LM10-1801	8' track, 2" NPT plug fitting, 3/4" NPT nipple, PP
LM10-1001	10' track, 2" NPT plug fitting, 3/4" NPT nipple, PP
LM10-1101	1m track, 2" NPT plug fitting, 3/4" NPT nipple, PP
LM10-1301	2m track, 2" NPT plug fitting, 3/4" NPT nipple, PP
LM10-1701	3m track, 2" NPT plug fitting, 3/4" NPT nipple, PP
Smart Trak™ Level Switch Car Kit	
LM30-1001	Level switch car kit, 3/4" NPT, PP
LM30-1061	Level switch car kit, 3/4" Rp, PP

Ordering

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PROCESS MOUNT (1) (2)

- **0** NPT (US)
- **2** G / Rp (Metric)

NOTES

1) To special order a 25' (7.6m) or 50' (15.2 m) level sensor cable, place the cable length at the end of the part number (ie: LP15-1405-25'). Contact factory for pricing special lengths.
2) The long Metric level sensor has straight G threads on the sensing side and conical R threads on the cable side of the wrench flat.