Switch-Tek™ LU10

Ultrasonic Liquid Level Switch

FLOWLINE™ LEVEL BEST

Application

The ultrasonic level switch provides high or low liquid level detection of chemical or low viscosity based liquids with a 1A relay output. Media examples include hydrochloric acid, sulfuric acid and diesel fuel oil. The submersible PP or PFA level switch sensor is universally mounted through the tank wall or inside the tank, and connected to a PLC or relay controller.



Features

- Submersible polypropylene or PFA Teflon® sensor and cable for corrosive liquids
- 60VA SPST relay selectable NO or NC via power supply wiring polarity
- Compatible with Smart Trak and Switch-Pak installation fittings

Key Benefits

- Ideal for use as a high or low level switch
- Well suited for use in highly 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.

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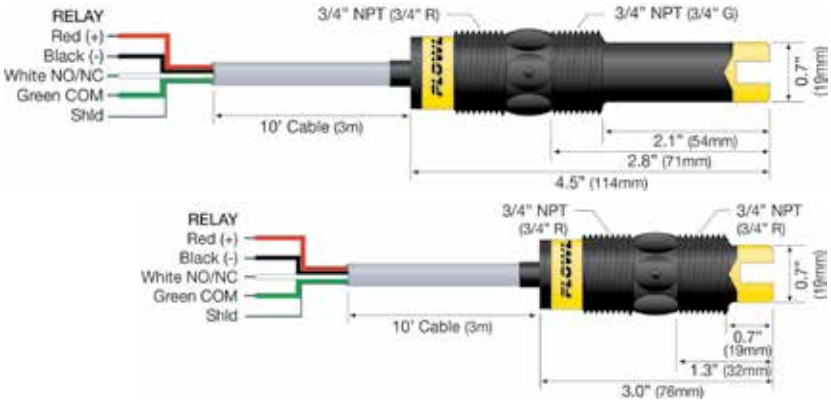
Specifications

Orientation:	Universal
Accuracy:	± 1mm in water
Repeatibility:	± 0.5mm in water
Supply voltage:	12-36 VDC
Consumption:	25 mA maximum
Contact type:	(1) SPST relay
Contact rating:	GP: 60 VA
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:	-1XX5: NEMA 6 (IP68) -2XX5: NEMA 4X (IP65)
Sensor material:	-1XX5: PP -2XX5: PFA
Cable jack. mat.:	-1XX5: PP -2XX5: PFA
Cable type:	4-conductor, shielded, #22 AWG
Cable length:	10’ (3m)
Process mount:	3/4” NPT (3/4” G / R)
Mount. gasket:	Viton®
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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SENSOR MATERIAL (1)
- **1** PP
- **2** PFA

SENSOR LENGTH
- **3** Short
- **4** Long

PROCESS MOUNT (2)
- **0** NPT (US)
- **2** G / R (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: LU10-1305-25’). Conact factory for pricing special lengths.
2) The short Metric level sensor has conical R threads on both sides of the wrench flat. 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.

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