Switch-Tek™ LV10

Vertical Buoyancy Liquid Level Switch

FLOWLINE™ LEVEL BEST

Application

The general purpose buoyancy level switch provides high or low liquid level detection of relatively clean water and chemical solutions with a 15VA reed switch output. Media examples include potable water and boric acid. The baffle body eliminates level switch chatter caused by turbulence. The submersible PP or PVDF level switch sensor is mounted vertically inside the tank, and connected to a PLC or relay controller.



Features

- Baffle body and stabilized float dampen out switch chatter
- Submersible PP or PVDF sensor and cable for corrosive liquids
- 15VA dry contact selectable NO or NC state via wiring selection
- Compatible with Smart Trak and Switch-Pak installation fittings

Key Benefits

- Baffel body and dynamically stabilized float minimize relay chatter for reliable, long lasting level detection
- Cage protects the sensor from floating debris

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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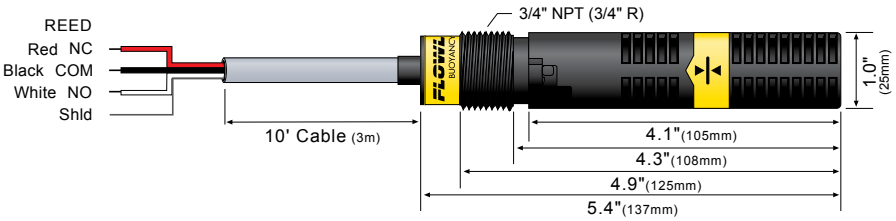
Specifications

Orientation:	± 20° vertical
Accuracy:	± 2mm in water
Repeatability:	± 1mm in water
Specific gravity:	0.8 minimum
Contact type:	(1) SPDT reed
Contact rating:	15 VA, 0.25A maximum
Contact output:	Selectable NO / NC
Process temp.:	F: -40° to 176°
	C: -40° to 80°
Pressure:	25 psi (2 bar) @ 25° C,
	derated @ 1.667 psi
	(0.115 bar) per °C
	above 25° C
Sensor rating:	NEMA 6 (IP68)
Sensor material:	-13X1: PP
	-53X1: PVDF
Cable jack. mat.:	-13X1: PP
	-53X1: FEP
Cable type:	3-conductor, shielded
Cable length:	10’ (3m)
Process mount:	3/4” NPT (3/4” R)
Classification:	General purpose
Compliance:	CE

Dimensions



Fittings

For optimum performance, install the level sensor using the below recommended or direct equivalent 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” R, PP



Side Mount Bracket	
LM50-1001	2” NPT bracket, PP

Ordering

LV10 - [ ] 3 [ ] 1

SENSOR MATERIAL (1)

- **1** PP
- **5** PVDF

PROCESS MOUNT

- **0** NPT (US)
- **5** 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: LV10-1305-25’). Contact factory for pricing special lengths.