

# Switch-Tek™ LV10

Vertical Buoyancy Liquid Level Switch



## 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

- Baffle 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.

# Switch-Tek™ LV10

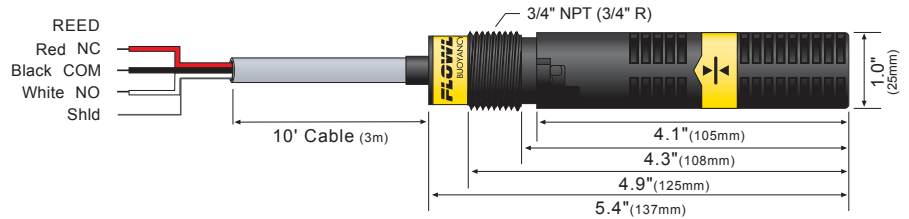
Vertical Buoyancy Liquid Level Switch



## Specifications

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

<b>LM45-7001</b>	2" NPT plug fitting, 3/4" NPT nipple, PVC
<b>LM45-1001</b>	2" NPT plug fitting, 3/4" NPT nipple, PP
<b>LM45-5001</b>	2" NPT plug fitting, 3/4" NPT nipple, PVDF

#### Smart Trak™ Fitting Components

<b>LM10-1201</b>	2' track, 2" NPT plug fitting, 3/4" NPT nipple, PP
<b>LM10-1401</b>	4' track, 2" NPT plug fitting, 3/4" NPT nipple, PP
<b>LM10-1601</b>	6' track, 2" NPT plug fitting, 3/4" NPT nipple, PP
<b>LM10-1801</b>	8' track, 2" NPT plug fitting, 3/4" NPT nipple, PP
<b>LM10-1001</b>	10' track, 2" NPT plug fitting, 3/4" NPT nipple, PP
<b>LM10-1101</b>	1m track, 2" NPT plug fitting, 3/4" NPT nipple, PP
<b>LM10-1301</b>	2m track, 2" NPT plug fitting, 3/4" NPT nipple, PP
<b>LM10-1701</b>	3m track, 2" NPT plug fitting, 3/4" NPT nipple, PP

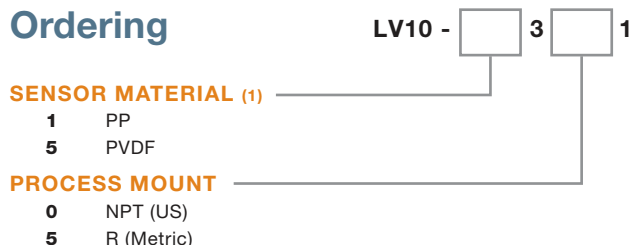
#### Smart Trak™ Level Switch Car Kit

<b>LM30-1001</b>	Level switch car kit, 3/4" NPT, PP
<b>LM30-1061</b>	Level switch car kit, 3/4" R, PP

#### Side Mount Bracket

<b>LM50-1001</b>	2" NPT bracket, PP
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## Ordering



## NOTES

- 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'). For PP, add \$30 for 25' (7.6m) or \$60 for 50' (15.2m) to the price. For PFA, add \$200 for 25' (7.6m) or \$400 for 50' (15.2m) to the price.