Switch-Tek™ **LZ12** Vibration Level Switch

FLOWLINE®

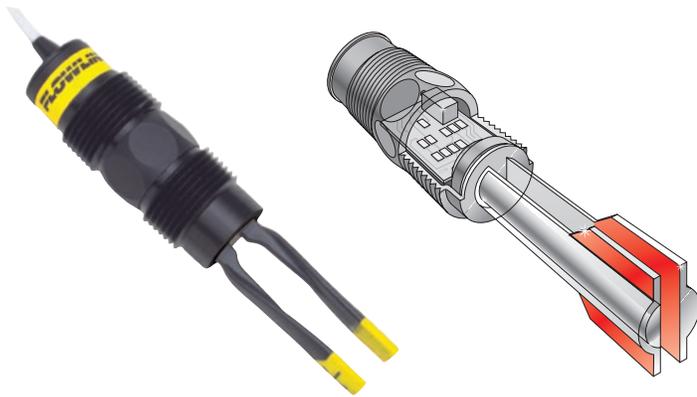## Application

The general purpose vibration point level switch provides reliable liquid level detection of dirty liquids such as those with light to medium coating, scaling or foaming characteristics with a 1A relay output. Media examples include wastewater, diluted caustic soda and light weight oil. For optimum performance, the liquid level switch automatically adjusts for coating build up, and if necessary, outputs a proactive maintenance alarm to request cleaning. The submersible Ryton® liquid level sensor is universally mounted through the tank wall or inside the tank as a high level alarm or low level alarm.

CE IP68

Features

☑ Automatic coating adjustment optimizes sensor performance

☑ Submersible Ryton® sensor with polypropylene cable for corrosive liquids

☑ Coating alarm proactively alerts user when cleaning is required

☑ 60VA relay selectable NO or NC via power supply wiring polarity

☑ Compatible with Smart Trak and Switch-Pak installation fittings

Key Benefits

☑ Ideal for coating/scaling liquids

☑ Mounts through side wall or top wall of tank

☑ Sensor has a coating alarm indicating to clean

☑ Great as a redundant high alarm

Compatible Products

Switch-Pro™
Remote Level Controller

LC4X

Application

Available in general purpose classification, the 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 level alarm or low level alarm. For field mount installation, add a single or dual indicator NEMA box.
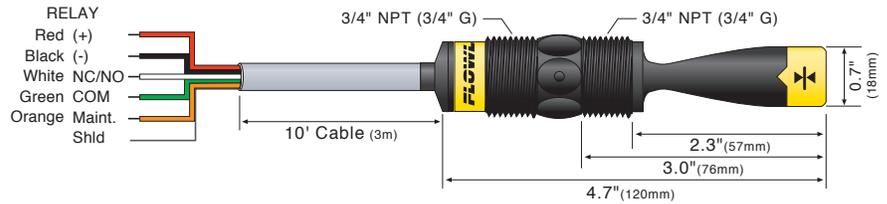
Switch-Pro™
Compact Level Controller

LC1X

Application

The general purpose 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 level alarm conditions. Package this level controller with our liquid level switch sensors and fittings.

Specifications

Orientation:	Universal
Accuracy:	± 1mm in water
Repeatability:	± 0.5mm in water
Supply voltage:	12-30 VDC
Consumption:	25 mA maximum
Contact type:	(1) SPST relay
Contact rating:	60 VA, 1A maximum
Contact output:	Selectable NO / NC
Maint. alarm:	NPN transistor, 10 mA maximum
Process temp.:	F: -40° to 176°
	C: -40° to 80°
Pressure:	150 psi (10 bar) @ 25º C, derated @ 1.667 psi (0.113 bar) per ºC above 25º C
Sensor rating:	NEMA 6 (IP68)
Sensor material:	Ryton® (glass filled)
Grommet mat.:	Viton®
Cable jack. mat.:	Polypropylene
Cable type:	5-conductor, shielded #24 AWG
Cable length:	10' (3m)
Process mount:	3/4" NPT (3/4" G)
Mount. gasket:	Viton®
Classification:	General purpose
Compliance:	CE

Dimensions

RELAY
Red (+)
Black (-)
White NC/NO
Green COM
Orange Maint.
Shld

3/4" NPT (3/4" G)   3/4" NPT (3/4" G)

0.7" (18mm)

10' Cable (3m)

2.3" (57mm)

3.0" (76mm)

4.7" (120mm)

Fittings

For optimum performance, install the level sensor using the below recommended or direct equivalent fittings.

P/N	Description
Switch-Pak Single-Point Switch Fitting	
LM45-7001	2" NPT Plug, 3/4" NPT Adapter & Nipple, PVC
LM45-1001	2" NPT Plug, 3/4" NPT Adapter & Nipple, PP
LM45-5001	2" NPT Plug, 3/4" NPT Adapter & Nipple, PVDF
Smart Trak Multi-Point Switch Fitting	
LM10-1201	2' Track, 2" NPT Plug, 3/4" NPT Nipple, PP
LM10-1401	4' Track, 2" NPT Plug, 3/4" NPT Nipple, PP
LM10-1601	6' Track, 2" NPT Plug, 3/4" NPT Nipple, PP
LM10-1801	8' Track, 2" NPT Plug, 3/4" NPT Nipple, PP
LM10-1001	10' Track, 2" NPT Plug, 3/4" NPT Nipple, PP
LM10-1101	1m Track, 2" NPT Plug, 3/4" NPT Nipple, PP
LM10-1301	2m Track, 2" NPT Plug, 3/4" NPT Nipple, PP
LM10-1701	3m Track, 2" NPT Plug, 3/4" NPT Nipple, PP
Smart Trak Level Switch Car Kit	
LM30-1001	Switch Car Kit, 3/4" NPT, Polypropylene
LM30-1061	Switch Car Kit, 3/4" Rp, Polypropylene
LM52-2890	2" NPT Bulkhead Fitting, PVC
Side-Mount Bracket	
LM50-1001	2" NPT Bracket, Polypropylene

Ordering

LZ12-14☐5

Process mount (1) (2)
- **0** NPT (US)
- **2** G (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: LZ12-1405-25'). Add $20 for 25' (7.6m) or $40 for 50' (15.2m) to the price.
2) The metric level sensor has straight G threads on the sensing side, and conical Rp threads on the cable side of the wrench flat.