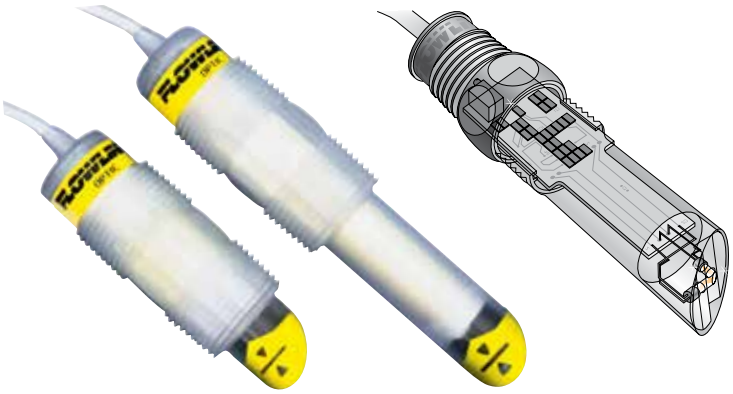
Switch-Tek™ LO10

Optic Liquid Leak Detection Switch

FLOWLINE™ LEVEL BEST

Application

The general purpose optic leak switch provides leak detection in and around secondary containment sumps, tanks and piping systems with a 1A relay output. Media examples include sulfuric acid and sodium hypochlorite. The submersible PP or PFA leak switch sensor is mounted through the containment wall or within the interstitial space, and connected to a PLC or relay controller.



Features

- Rugged polypropylene or PFA Teflon® sensor and cable for corrosive liquids
- 60VA SPST relay selectable NO or NC via power supply wiring polarity
- Sensor may be located up to 1000’ from a Flowline relay controller

Key Benefits

- Fail-safe leak sensor inverts “wet” to alert user for maintenance
- Submersible sensor and cable designed for insertion within a secondary containment wall
- Requires only a small amount of liquid to detect the presence of a leak

Compatible Products



LC4X

SWITCH-PRO™

Remote Level Controller

The general purpose remote level controller is offered in two configurations for leak alarm and/or pump or valve shut off. The LC40 accepts one leak sensor input and with one 10A relay ouput. The LC42 accepts two leak sensor inputs with two 10A relay outputs. For field mount installation, add a single or dual indicator NEMA box.



LC10

SWITCH-PRO™

Compact Level Controller

The general purpose compact level controller mounts directly on the sensor for leak alarm and/or pump or valve shut off. The LC10 accepts one leak sensor input with one 16A relay output. The optional flash alarm brings attention to alarm conditions. The controller may also be mounted on the top of Switch-Pak fitting with the leak sensor mounted on the bottom of the fitting.

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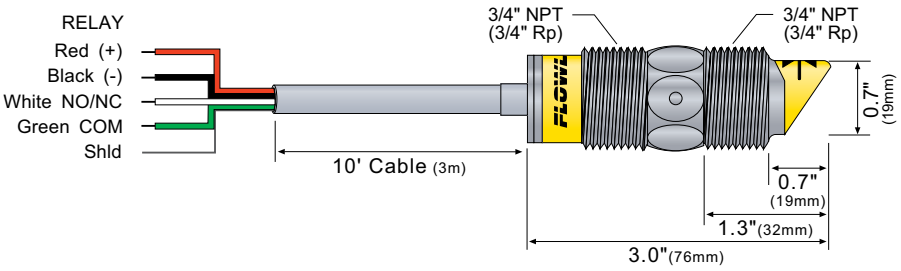
Specifications

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:	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:	-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 / Rp)
Mount. gasket:	Viton® (G version only)
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
Side Mount Bracket	
LM50-1001	2” NPT bracket, 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 / 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: LO10-1305-25’). Contact factory for pricing special lengths.
2) The short Metric level sensor has conical Rp 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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