Switch-Pro™ LC4X & LC9X

Remote or Isolation Level Switch Controllers

FLOWLINE™
LEVEL BEST

Application

Available in CSA approved, general purpose (LC4X) or isolation (LC9X) versions with built-in intrinsic safety barriers for use with associated apparatus, the level switch controller is offered in three configurations for pump and valve control. The LC40/90 accepts one level switch input and provides one 10A relay. The LC41 accepts two level switch inputs and provides one latching 10A relay for automatic fill or empty control. The LC42/92 accepts three level switch 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. Select the general purpose or isolation controller type and model based on your classification and control requirements. For field mount installation, add a single or double NEMA box with optional flash and/or audible alarm.

LC41-1001
Shown

LC91-1001
Shown

Features

- Fail-safe relay control of pumps or valves with 0-60 second delay
- Optional built-in inrinsically safe barriers for hazardous applications
- Easy setup with LED indicators for sensor, power and relay status
- 35mm DIN rail mount PP enclosure with removable terminal strips
- Invert switch changes relay state from NO to NC without rewiring
- Available with custom NEMA boxes and tank alarm accessories

Key Benefits

- Controls pumps, valves, horns and alarm indicators
- Available in general purpose or isolation configurations
- Complete solution for level switch control requirements
- 35mm DIN rail or screw mount inside panel or NEMA box

Compatible Products

LU10

SWITCH-TEK™
Ultrasonic Level Switch
Broadly applied in chemicals and light weight oils

LZ12

SWITCH-TEK™
Vibration Level Switch
Applied in wastewater with light coating or scaling

LV10

SWITCH-TEK™
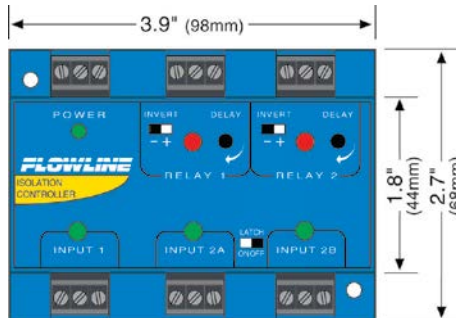**Vertical Buoyancy Level Switch**
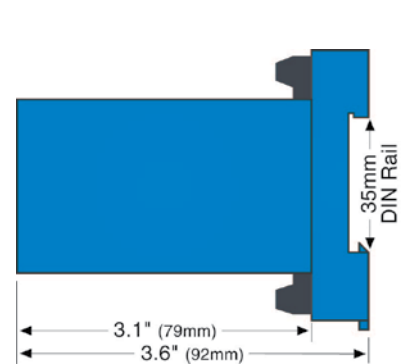Applied in clean water and non-coating chemicals

Specifications

Supply voltage:	120 / 240 VAC @ 50-60 Hz.
Consumption:	5 watts maximum
Sensor inputs:	LC40/90:(1) Two wire level switch
	LC41: (2) Two wire level switches
	LC42/92:(3) Two wire level switches
Sensor supply:	13.5 VDC @ 27 mA
LED indication:	Sensor, power & relay
Contact type:	LC40/90:(1) SPDT relay
	LC41: (1) SPDT latching relay
	LC42/92:(2) SPDT relays (one latching)
Contact rating:	250 VAC @ 10A
Contact output:	Selectable NO / NC
Contact latch:	LC40/90:N/A
	LC41: Selectable ON/OFF
	LC42/92:Selectable ON/OFF
Contact delay:	0.15 - 60 seconds
Ambient temp.:	F: -40° to 140°
	C: -40° to 60°
Pressure:	Atmospheric
Enclosure type:	35mm DIN rail
Encl. material:	PP, UL94VO
Classification:	LC4X: General purpose
	LC9X: Associated apparatus
Approvals:	CSA, LR 79326
Safety:	Class 1, Groups A, B, C & D;
(LC90 only)	Class II, Groups E, F & G;
	Class III
Parameters:	Voc = 17.47VDC;
(LC90 only)	Isc = 0,4597A;
	Ca = 0.494uF
	La = 0.119mH

Dimensions

Top View

Side View

Accessories

Protect your level controller from the elements using the below single or double NEMA boxes that come with 35mm DIN rail mounting hardware.

P/N	DESCRIPTION
LM92-1202	Single NEMA box, windowed, 35mm rail, PC
LM92-2202	Double NEMA box, windowed, 35mm rail, PC

Ordering

LC [ ] [ ] -1001

CONTACT / INPUTS (1)
4 General purpose
9 Isolation (hazardous)

ENCLOSURE MOUNT (2) (3)
0 1 Relay / 1 sensor
1 1 Latching relay / 2 sensors
2 2 Relays (1 latching) / 3 sensors

NOTES

1) Select the classification based on your general purpose or isolation (intrinsically safe for associated apparatus) requirements.

2) For field mount installation in a NEMA 4X polycarbonate enclosure, order the single or double NEMA box.

3) 1 Latching relay / 2 sensors configuration is only available in the General Purpose configuration and not available in the Isolation configuraiton.