

## Application



Available in CSA approved, general purpose (LC4X) or isolation (LC9X) with built-in intrinsic safety barriers for use with associated apparatus, the level controller is offered in three configurations for pump and valve control. The LC40/90 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 LC42/92 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.



## Features

- ✓ Fail-safe relay control of pumps or valves with 0-60 second delay
- ✓ Optional built-in intrinsic safety barriers for hazardous applications (LC9X)
- ✓ Easy setup with LED indicators for sensor, power and relay status
- ✓ 35 mm DIN rail mount Polypropylene enclosure with removable terminal strips
- ✓ Invert switch changes relay state from NO to NC without rewiring

## Key Benefits

- ✓ Mounts easily in control panel
- ✓ Connects to any Flowline level switch
- ✓ Interfaces directly with any horn, buzzer, valve, etc.
- ✓ Use LC\_1, LC\_2 version for automatic fill/empty operations

## Compatible Products

### Switch-Tek™ Level Switch Sensors



LU10  
Ultrasonic

LZ12  
Vibration

LV10  
Buoyancy

LP15  
Capacitance

LO10  
Leak Detection

LP50  
Capacitance

LV35/36  
High Temp Float

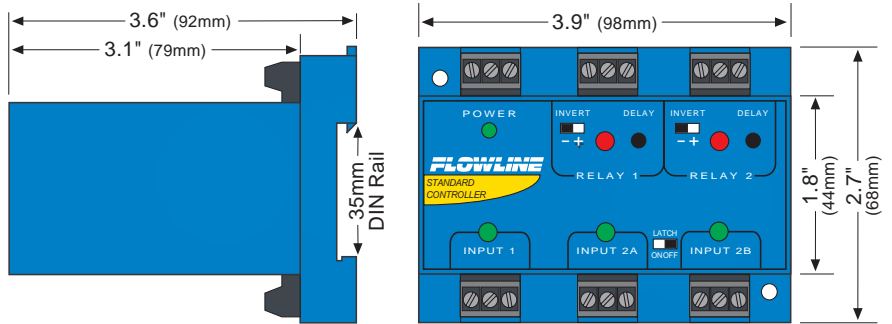
LV20  
Mini-Float

LH25/35  
Mini & High Temp Float

## 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 relay, latching  
 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: 0-60 seconds  
 Ambient temp.: F: -40° to 158°  
 C: -40° to 70°  
 Enclosure type: 35mm DIN rail  
 Enclosure mat.: PP, UL94VO  
 Classification: LC4X: General purpose  
 LC9X: Associated apparatus  
 Compliance: CE (LC4X only)  
 Approvals: CSA, LR 79326  
 Safety: Class 1, Groups A, B, C (LC9X only) & D; Class II, Groups E, F & G; Class III  
 Parameters: Voc = 17.47 VDC; Isc = (LC9X only) 0.4597A; Ca = 0.494 µF; La = 0.119 mH

## Dimensions



## Accessories

Protect your level controller from the elements by using the below recommended single or two indicator NEMA box.



P/N	Description
<b>Single &amp; Two Controller NEMA Box</b>	
LM94-1001	Single Controller, Windowed, 35mm Rail, Polycarbonate
LM95-1001	Two Controller, Windowed, 35mm Rail, Polycarbonate

## Ordering

LC       -1001

**Classification (1) (2)**  
 4 General purpose  
 9 Isolation (hazardous)  
**Contact(s) / input(s) (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 (intrinsic safety for associated apparatus) requirements
- 2) For field mount installation in a NEMA 4X polycarbonate enclosure, order the single or two controller NEMA box.
- 3) LC91 not available.