

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



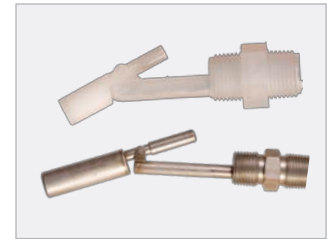
LP50
Capacitance



LV35/36
High Temp Float



LV20
Mini-Float

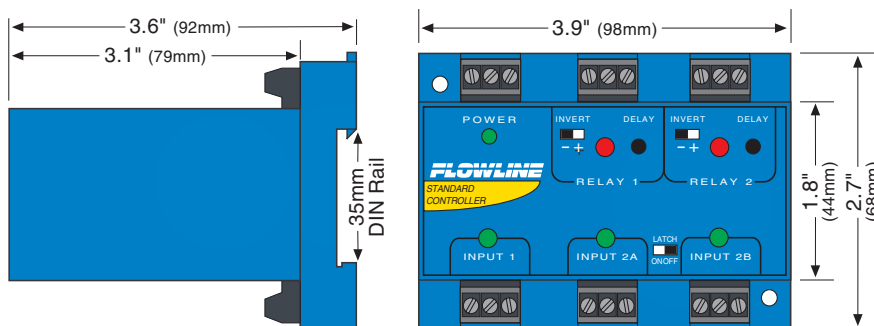


LH25/35
Mini & High Temp Float

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
Single & Two Controller NEMA Box	
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

- Select the classification based on your general purpose or isolation (intrinsic safety for associated apparatus) requirements
- For field mount installation in a NEMA 4X polycarbonate enclosure, order the single or two controller NEMA box.
- LC91 not available.