

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

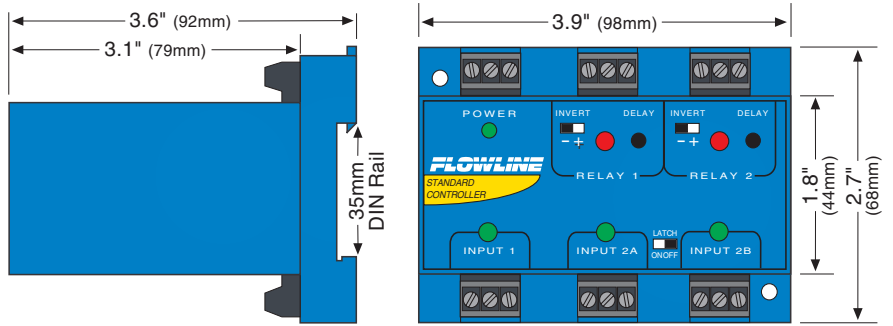
LV20
Mini-Float

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

- 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.