



LEVEL SWITCH ISOLATION REMOTE RELAY CONTROLLERS



- Remote relay controller mounts on 35 mm DIN rail or panel installation
- Built-in intrinsic safety barrier for use with hazardous applications
- Fail-safe relay for actuation of pumps, valves or alarms
- PP enclosures mounts on 35 mm DIN rail or panel installation
- LED indicators for sensor, relay and power status
- Adjustable 0-60 Second time delay dampens out relay chatter
- Invert switch provides simple NO or NC relay operation

MODEL LC90-1001



MODEL LC91-1001



MODEL LC92-1001



SPECIFICATIONS

Supply voltage: 120/240 VAC, 50-60 Hz.
 Consumption: 5 Watts
 Sensor supply: 13.5 VDC @ 27 mA
 Relay type: LC90-1001: (1) SPDT
 LC91-1001: (1) Latched, SPDT
 LC92-1001: (1) SPDT, (1) Latched, SPDT
 Relay load: 250 VAC, 10A, 1/2 hp.
 Relay model: Selectable, NO or NC
 Time delay: 0-60 seconds
 LED indication: Sensor, relay & power status
 Fail safety: Power fail-safe
 Temp. rating: F: -40° to 158°
 C: -40° to 70°
 Enclosure type: 35 mm DIN (EN 50 022)
 Enclosure mat'l: PP (U.L. 94V0)

APPLICATION

The LC90-1001 level switch controller is commonly used as a high or low level shut off with pumps or valves. The LC91-1001 level switch controller is commonly used for the automatic filling or emptying of a tank between two switch points. The LC92-1001 level switch controller is commonly used for the automatic filling or emptying of a tank between two switch points with an additional high or low level alarm switch point. Combine these controllers with intrinsically safe Flowline level switches to complete your control package.

CSA approval:

Class I, Groups A, B, C and D;
 Class II, Groups E, F and G; Class III

CSA entity parameters:

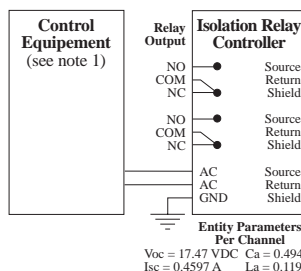
$V_{oc} = 17.47$ VDC, $I_{sc} = 0.4597$ A
 $C_a = 0.494$ μ F, $L_a = 0.119$ mH

CSA certificate: LR 79326-4

Notes:

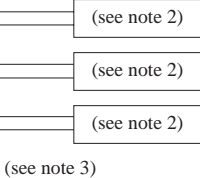
1. Control equipment connected to series LC90 controller must not use or generated more than 250V.
2. CSA certified equipment with entity parameters connected in accordance with manufactures instructions or switches, thermocouples, LEDs, or RTDs.
3. Separation must be maintained between wiring of separate channels.
4. Installation should be in accordance with CEC Part I or NFPA 70.

NON-HAZARDOUS LOCATION



HAZARDOUS LOCATION

Class I, Groups A, B, C, and D
 Class II, Groups E, F, and G
 Class III



This document is provided for reference and is believed to be accurate at the time of publication. However, Flowline reserves the right to change the product specifications at any time without notice. Additional information may be obtained on the Internet at <http://www.flowline.com> or by contacting Flowline.

To Order (Specify Model Number)			Prices Shown in U.S. Dollars
Model No.	Price	Description	Type
LC90-1001	\$295.00	High or Low Level Alarm Controller	Level
LC91-1001	\$350.00	Automatic Fill or Empty Controller	Level
LC92-1001	\$395.00	Automatic Fill or Empty w/ Alarm Controller	Level

The LM92-1001 single controller NEMA box can be purchased separately for \$190. The LM93-1001 two controller NEMA box can be purchased separately for \$280. To have the supply voltage factory configured to 240 VAC, place an E at the end of the part number (ex: LC42-1001-E).

LEVEL SUPERSTORE