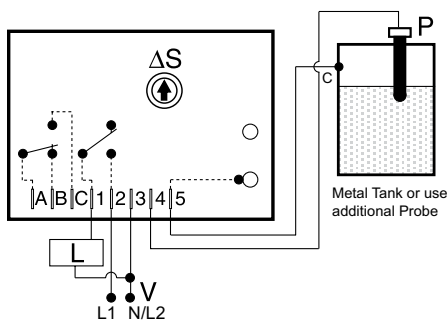


## LLC1 SERIES

### Open Board Liquid Level Controls



### Wiring Diagram



P = Probe  
L = Load  
V = Voltage  
 $\Delta S$  = Sensitivity Adjustment

Contacts A, B & C are isolated.

Connect common to conductive tank or an additional probe as required.

### Description

The LLC1 Series is a single probe conductive liquid level control designed for OEM equipment and commercial appliances. This unit may be ordered with fixed fill or fixed drain operation. A time delay (1-60s) prevents rapid cycling of the output relay. On adjustable units, the sensitivity adjustment allows accurate level sensing while ignoring foaming agents and floating debris. Isolated AC voltage is provided at the probe to prevent electrolysis. A trickle current of less than 1mA determines the presence or absence of liquid between the probe and common. The LLC1 Series printed circuit board is conformal coated to resist moisture and corrosion.

### Operation

**Drain (Pump-Down Mode):** When the liquid level rises and touches the probe, a fixed time delay begins. This time delay prevents rapid cycling of the output relay and its load. At the end of the time delay, the output relay energizes and remains energized until the liquid level falls below the probe. The output relay then de-energizes and remains de-energized until the liquid again touches the probe.

**Fill (Pump-Up Mode):** When the liquid level falls below the probe, a fixed time delay begins. This time delay prevents rapid cycling of the output relay and its load. At the end of the time delay, the output relay energizes and remains energized until the liquid level rises and touches the probe. The output relay then de-energizes and remains de-energized until the liquid level again falls below the probe.

### Features & Benefits

FEATURES	BENEFITS
<b>Isolated AC voltage on probe</b>	Prevents scale buildup on the probe
<b>Open PCB design</b>	Cost effective design for OEM equipment and commercial appliances
<b>Conformally coated PCB</b>	Protects against moisture and corrosion
<b>Sensitivity adjustment</b>	Provides accurate level sensing while ignoring foam or floating debris

### Ordering Information

MODEL	INPUT VOLTAGE	OPERATION	TIME DELAY	SENSE RESISTANCE	MOUNTING
LLC14A1AX	120VAC	Drain	1s	Adjustable	0.5 in nylon standoffs (3)
LLC14A5AX	120VAC	Drain	5s	Adjustable	0.5 in nylon standoffs (3)
LLC14B15AX	120VAC	Fill	15s	Adjustable	0.5 in nylon standoffs (3)
LLC14B1AX	120VAC	Fill	1s	Adjustable	0.5 in nylon standoffs (3)
LLC14B60AX	120VAC	Fill	60s	Adjustable	0.5 in nylon standoffs (3)
LLC16A25AX	230VAC	Drain	25s	Adjustable	0.5 in nylon standoffs (3)
LLC16A3AX	230VAC	Drain	3s	Adjustable	0.5 in nylon standoffs (3)

If you don't find the part you need, call us for a custom product 800-843-8848

## LLC1 SERIES

### Accessories



**P1015-13** (AWG 10/12), **P1015-64** (AWG 14/16), **P1015-14** (AWG 18/22) **Female Quick Connect**  
These 0.25 in. (6.35 mm) female terminals are constructed with an insulator barrel to provide strain relief.



**P1015-18 Quick Connect to Screw Adapter**  
Screw adapter terminal designed for use with all modules with 0.25 in. (6.35 mm) male quick connect terminals.



**PHST-38QTN Electrode**  
Designed for a maximum steam pressure of 240 PSI; 400° F. UL353 Recognized.



**LLP-24 Threaded Probe (24")**  
Threaded stainless steel probe measuring 24" (61 cm) long. For use with PHST-38QTN liquid level control electrodes.

### Specifications

<b>Control Type</b>	ON/OFF (single level) resistance sensor with built-in time delay to prevent rapid cycling
<b>Sense Voltage</b>	Low voltage AC between probe & common. Isolated from input & output.
<b>Sense Resistance</b>	Fixed or adjustable to 250KΩ
<b>Sense Resistance Tolerance</b>	Adjustable - guaranteed range Factory fixed ±10%
<b>Time Delay Range</b>	Fixed 1 - 60s in 1s increments
<b>Input Voltage Tolerance</b>	24, 120, or 230VAC
<b>24VAC Tolerance</b>	-15% - 20%
<b>120 &amp; 230VAC Tolerance</b>	-20% - 10%
<b>AC Line Frequency</b>	50/60 Hz
<b>Output Type</b>	Electromechanical relay
<b>Form</b>	Non-isolated, SPST & Isolated, SPDT contacts
<b>Rating</b>	10A resistive @ 120/240VAC & 28VDC; 1/3 hp @ 120/240VAC
<b>Life</b>	Mechanical - 1 x 10 <sup>7</sup> ; Electrical - 1 x 10 <sup>5</sup>
<b>Protection Surge</b>	IEEE C62.41-1991 Level A
<b>Isolation Voltage</b>	≥ 1500V RMS between input, output & probe
<b>Mechanical Mounting</b>	Surface mount to probe common with two #6 (M3.5 x 0.6) screws or 0.50 in. (12.7 mm) nylon standoffs with three #6 (M3.5 x 0.6) screws (use Terminal 5 for probe common)
<b>Termination</b>	0.25 in. (6.35 mm) male quick connect terminals
<b>Dimensions (Open Board)</b>	<b>H</b> 88.9 mm (3.5"); <b>W</b> 69.9 mm (2.75"); <b>D</b> 50.8 mm (2.0")
<b>Environmental Operating/Storage Temperature</b>	-20° to 55°C/-40° to 80°C
<b>Coating</b>	Printed circuit board is conformal coated to resist moisture and corrosion
<b>Weight</b>	≈ 8.7 oz (247 g)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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