

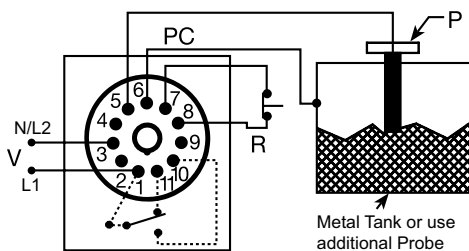
## LLC6 SERIES

### Low Level Cutoff Liquid Level Controls



11-PIN

### Wiring Diagram



PC = Probe  
Common  
P = Probe  
V = Voltage  
R = Optional NC  
Reset Switch

Connect common to conductive tank. Additional probe is necessary for non-conductive or insulated tanks.

### Description

The LLC6 Series is a plug-in, single-probe conductive liquid level control designed for low liquid level cutoff protection. It offers a factory fixed time delay of 1 - 60s and is available in input voltages of 24, 120, or 230VAC. LED indicator illuminates whenever the LLC6's 10A, SPDT output relay is energized. Available with automatic/manual reset or a special manual reset with power outage feature, which auto resets the unit when power is restored and the water level is acceptable. 24VAC and 120VAC units are recognized as limit switches under UL353 (230VAC units are UL508) and CSA certified under Standard 14.

#### Operation

**Automatic Reset (Reset terminals not connected):** When liquid rises to the low level cutoff probe, the output relay and the LED indicator energize. When the liquid falls below low level cutoff probe, the output relay and the LED indicator de-energize after a fixed time delay.

**Manual Reset (Reset switch connected):** When the liquid level falls below the low level probe, the output relay and LED de-energize after a fixed time delay. When the liquid level rises to the low level probe, the output relay and LED indicator remain de-energized until the manual reset switch is opened; then they energize immediately.

**Power Outage Manual Reset (Reset switch connected):** A power outage causes the output relay and LED indicator to de-energize. Upon restoration of power, if the liquid level is above the low level probe, the output relay and LED indicator will re-energize. If the liquid level is below the low level probe, the output relay and LED indicator remain de-energized until the Normally Closed (NC) reset switch is opened.

### Features & Benefits

FEATURES	BENEFITS
<b>Isolated 12VAC on probe</b>	Prevents electrolysis
<b>Industry standard 11-pin octal plug connection</b>	Eliminates need for special connectors
<b>LED indication</b>	Visual indication output relay is energized
<b>Power outage protection (see ordering table for models)</b>	Automatically resets the unit when power is restored and the water level is acceptable

### Ordering Information

MODEL	INPUT VOLTAGE	TIME DELAY (FIXED)	SENSE RESISTANCE	RESET
LLC6210F10M	24VAC	10s	10kΩ	Manual/Automatic
LLC6410F10M	120VAC	10s	10kΩ	Manual/Automatic
LLC643F26M	120VAC	3s	26kΩ	Manual/Automatic
LLC6610F5P	230VAC	10s	5kΩ	Power Outage Manual Reset

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

## LLC6 SERIES

### Accessories



#### **BZ1 Front Panel Mount Kit**

Provides an easy method of through-the-panel mounting of 8- or 11-pin plug-in timers, flashers, and other controls.



#### **NDS-11 11-pin Socket**

11-pin 35mm DIN rail or surface mount. Surface mounted with two #6 (M 3.5 x 0.6) screws or snaps onto a 35 mm DIN rail. Uses PSC11 hold-down clips.



#### **PSC11 Hold-down Clips**

Securely mounts plug-in controls in any position. Provides protection against vibration. Use with NDS-11 Socket. Sold in pairs.



#### **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

#### **Control**

##### **Type**

ON/OFF (single level) resistance sensor with built-in time delay to prevent rapid cycling

##### **Sense Voltage**

12VAC nominal at probe terminals

##### **Sense Resistance**

Fixed 5K - 250K $\Omega$

##### **Sense Resistance Tolerance**

Fixed  $\pm 10\%$

#### **Time Delay**

##### **Range**

1 - 60s in 1s increments

##### **Tolerance**

$\pm 20\%$

##### **Repeat Accuracy**

$\pm 10\%$

##### **Time Delay vs Temp.**

##### **& Voltage**

$\pm 10\%$

##### **Power Outage Reset Delay**

$\leq 1s$

#### **Input**

##### **Voltage**

24, 120, or 230VAC

##### **Tolerance**

+20% to -15%

##### **120 or 230VAC**

+10% to -20%

##### **AC Line Frequency**

50/60 Hz

#### **Output**

##### **Type**

Electromechanical relay

##### **Form**

Non-isolated, SPDT

##### **Rating**

10A resistive @ 240VAC; 1/4 hp @ 125VAC; 1/2 hp @ 250VAC

#### **Protection**

##### **Surge**

IEEE C62.41-1991 Level A

##### **Isolation Voltage**

$\geq 2500V$  RMS between input & output terminals

#### **Mechanical**

##### **Mounting**

Plug-in socket

##### **Termination**

11-pin relay type

##### **Dimensions**

**H** 73.9 mm (2.91"); **W** 60.7 mm (2.39");

**D** 45.2 mm (1.78")

#### **Environmental**

##### **Operating/Storage**

##### **Temperature**

-40° to 60°C / -40° to 80°C

##### **Humidity**

95% relative, non-condensing

##### **Weight**

$\approx 7.3$  oz (207 g)