

Liquid Level Control

LLC5 Series

Dual Probe



- Dual Probe Level Control for Conductive Liquids
- Onboard Knob or Fixed Sensing up to 100KΩ
- Fill or Drain Operation Available
- LED Indicator Reduces Adjustment Time
- 24, 120, or 230 V AC Models are Available
- 5 A SPDT Isolated Contacts

Approvals:

Accessories

- Panel mount kit
P/N: **BZ1**
- Octal 8 pin socket
P/N: **NDS-8**
- Hold down clips
P/N: **PSC8**
- Electrode
P/N: **WCC-1138**
- Level probe
P/N: **LLP-24**

See accessory pages for specifications.

Description

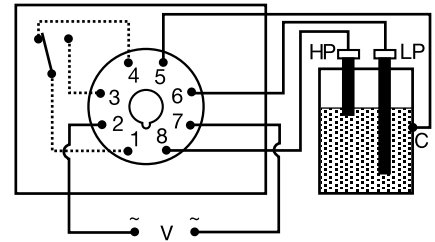
The LLC5 provides dual probe conductive liquid level control in a convenient octal plug-in package. Models are available for fill or drain operation. Transformer isolated AC voltage on the probes prevents electrolytic plating. Less than 1 mA of current is used to sense the presence of conductive liquid between the probes and common. On adjustable units, the sensitivity adjustment eliminates false tripping caused by floating debris and foaming agents.

Operation

Drain (Pump Down Mode): When the liquid level rises and touches the high level probe, the output relay energizes and remains energized until the liquid level falls below the low level probe. The output relay then de-energizes and remains de-energized until the liquid again touches the high level probe.

Fill (Pump Up Mode): When the liquid level falls below the low level probe, the output relay energizes and remains energized until the liquid level rises and touches the high level probe. The output relay then de-energizes and remains de-energized until the liquid level again falls below the low level probe.

Connection



Relay contacts are isolated. Dashed lines are internal connections.

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

HP = High Level Probe LP = Low Level Probe
C = Probe Common V = Voltage

Ordering Table

LLC5 Series	Input	Operation	Sense Resistance	Connection
	2 - 24 V AC	A - Drain	A - Adjustable	Blank - Standard (#6 Low, #8 High)
	4 - 120 V AC	B - Fill	F - Fixed	S - Reverse (#8 Low, #6 High)
	6 - 230 V AC		Specify fixed resistance (1 ... 100) in 1KΩ increments	

Example P/N: **LLC54AAS** Fixed – **LLC56BF100**

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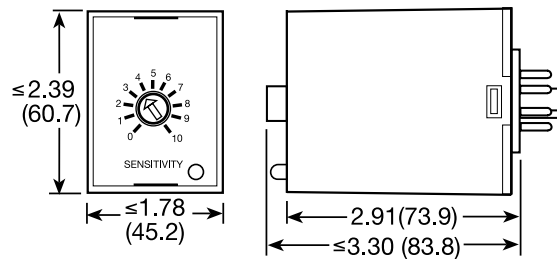
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Liquid level controls

Technical Data

Control		
Type		Resistance sensing for high & low level detection of conductive liquids
Sense Voltage		12 V AC at probe terminals
Sense Resistance		Factory fixed or adjustable to 100K Ω
Sense Resistance Tolerance		Adjustable - guaranteed range Factory fixed +/-10%
Input		
Voltage		24, 120, or 230 V AC
Tolerance	24 V AC	-15% ... +20%
	120 & 230 V AC	-20% ... +10%
Frequency		50 ... 60 Hz
Output		
Type		Electromechanical relay
Form		Isolated single pole double throw (SPDT) contacts
Rating		5 A resistive at 240 V AC; 1/10 hp at 240 V AC
Protection		
Isolation Voltage		\geq 1500 V RMS between input, output, & probe
Mechanical		
Mounting		Plug-in socket
Termination		8 Pin plug-in
Environmental		
Operating Temperature		-20°C ... +60°C
Storage Temperature		-40°C ... +80°C
Weight		\cong 6 oz (170 g)

Mechanical View



Inches (Millimeters)