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# LSR SERIES LIQUID LEVEL CONTROL SINGLE PROBE

## FEATURES

- Single Probe Level Detection
- Fixed or Adjustable Sensing Resistance to 250K Ohms
- 12 VAC On Probes to Help Prevent Plating Action
- 24, 120, or 230 VAC Inputs Available
- Drain or Fill Type Logic
- Mounting Configurations to Retrofit Competition
- Conformal Coated Circuitry to Help Resist Moisture
- UL/cUL Recognized

## SPECIFICATIONS

### 1. Control

- 1.1 Type: Resistance Sensing Circuitry for Pump/Fill Up or Pump/Drain Down Applications With Time Delay
- 1.2 Sensing Voltage: 12 VAC Nominal at Probe Terminals
- 1.3 Sensing Resistance: Factory Fixed or Adjustable from 1 to 250K Ohms
- 1.4 Sensing Resistance Tolerance: Factory Fixed  $\pm 10\%$  of Adjustable Guaranteed Range

### 2. Input

- 2.1 Operating Voltage: 24, 120, & 230 VAC
- 2.2 Tolerance:  $\pm 20\%$  of Nominal
- 2.3 Frequency: 50 - 60 Hertz

### 3. Output

- 3.1 Type: Electromechanical Relay
- 3.2 Form: SPDT Isolated Contacts
- 3.3 Rating: 10 Amps Resistive @ 30 VDC, 120/240 VAC
- 3.4 Life: Electrical - Full Load - 100,000 Operations  
 Mechanical - 10,000,000 Operations

### 4. Protection

- 4.1 Transient:  $\pm 1500$  Volts for 150 Microseconds
- 4.2 Dielectric Breakdown: 1500 Volts RMS Minimum

### 5. Mechanical

- 5.1 Mounting: #6 Screw Clearance (4 Places)
- 5.2 Termination: Barrier Blocks, 3/16", or 1/4" Quick Connect
- 5.3 Style: Surface Mount

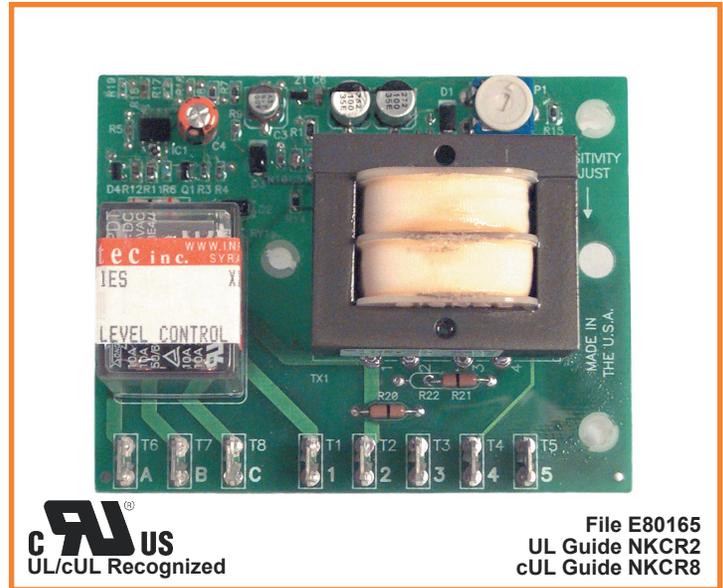
### 6. Environmental

- 6.1 Operating Temperature:  $-20^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$
- 6.2 Storage Temperature:  $-30^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- 6.3 Humidity: Conformal Coated to Resist Humidity

## MODE OF OPERATION DRAIN TYPE

Upon application of power to the input terminals, the output contacts will be de-energized, as long as the liquid is not in contact with the probe. When the liquid makes contact with the probe, the fixed time delay is initiated. At the end of the time delay, the output contacts transfer to their energized position. When the liquid drops below the probe, the output contacts immediately revert to their original de-energized position.

## SERIES LSR\_A



**UL**  
UL/cUL Recognized

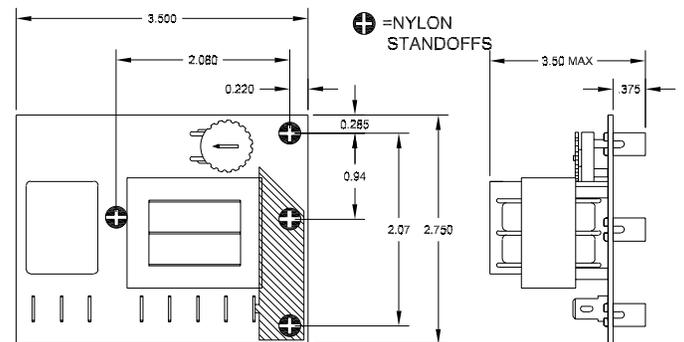
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cUL Guide NKCR8

## FILL TYPE

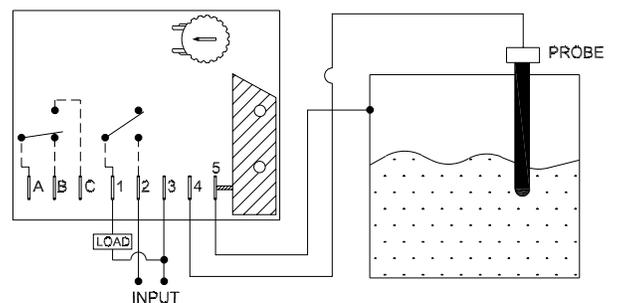
Upon application of power to the input terminals, the output contacts will be de-energized, as long as the liquid is in contact with the probe. When the liquid level drops below the probe, the fixed time delay is initiated. At the end of the delay, the output contacts transfer to their energized position. When the liquid contacts the probe, the output contacts immediately revert to their original, de-energized position.

## LSR\_B

## DIMENSIONS



## CONNECTION DIAGRAM



## ORDERING INFORMATION

SERIES	INPUT VOLTAGE	LOGIC TYPE	TIME DELAY	SENSE RESISTANCE	MOUNTING
LSR	4 - 24 VAC 5 - 120 VAC 6 - 230 VAC	A - Drain B - Fill	Specify Fixed Delay In Seconds (1 - 60 seconds)	A - Adjustable to 250K Ohms ex: A30K F - Fixed Resistance, Specify in 1K Ohm Increments up to 250K Ohms ex: F30K	S - Surface Mount X - Three (3) 3/8" Nylon Standoffs