



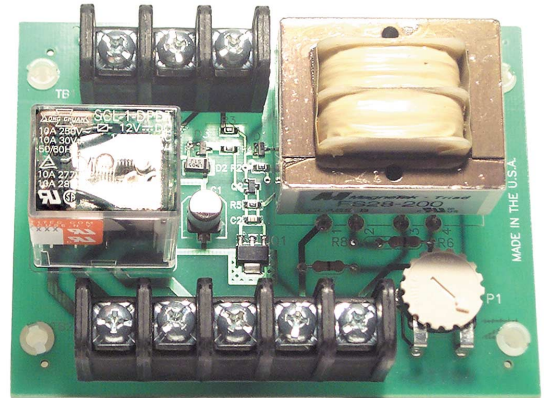
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LDR SERIES LIQUID LEVEL CONTROL DUAL PROBE

FEATURES

- Dual Probe Level Detection
- Fixed or Adjustable Sensing Resistance to 100K ohms
- 12 VAC On Probes to Help Prevent Plating Action
- 10 Ampere, Isolated, SPDT Relay Output
- 24, 120 or 230 VAC Inputs Available
- Drain or Fill Type Logic
- Barrier Block, 3/16" or 1/4" Quick Connect Terminals
- Mounting Configurations to Retrofit Competition
- Conformal Coated Circuitry to Help Resist Moisture
- UL/cUL Recognized



CAUS
UL/cUL Recognized

File E80165
UL Guide NKCR2
cUL Guide NKCR8

SPECIFICATIONS

1. Control.

- 1.1 Type: Resistance sensing circuitry for pump up or pump down applications
- 1.2 Sensing Voltage: 12 VAC nominal at probe terminals
- 1.3 Sensing Resistance: Factory fixed or adjustable to 100K ohms
- 1.4 Sensing Resistance Tolerance: Factory fixed $\pm 10\%$ or 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
- 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: ± 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 terminals
- 5.3 Style: Surface mount

6. Environmental.

- 6.1 Operating temperature: -20°C to +60°C
- 6.2 Storage temperature: -30°C to +85°C
- 6.3 Humidity: Conformal coated to resist humidity

MODE OF OPERATION - SERIES

DRAIN TYPE - LDR_A

Upon application of power to the input terminals, the relay will be de-energized, as long as the liquid is not in contact with the upper probe. When the liquid comes in contact with the upper probe, the output contact transfers to the energized position. When the liquid drops below the lower probe, the output contacts immediately revert to their original de-energized position.

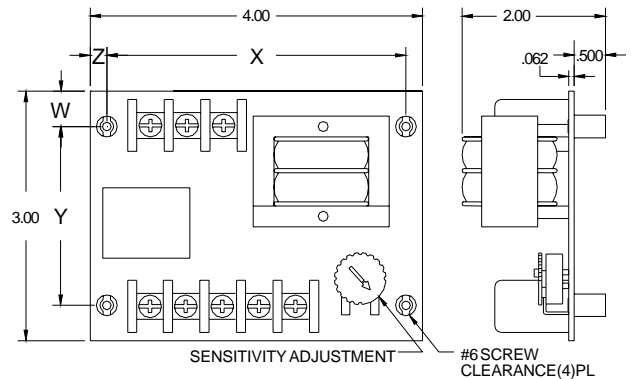
FILL TYPE - LDR_B

Upon application of power to the input terminals, the relay will be de-energized, as long as the liquid level is between the upper and lower probes. When the liquid level drops below the lower probe, the output relay energizes. When the liquid contacts the upper probe, the output contacts revert back to their original, de-energized positions.

DIMENSIONS

* Optional Mounting Dimensions (See Ordering Information)

	N	C
W	.44	.25
X	3.62	3.5
Y	2.12	2.5
Z	.19	.25



ORDERING INFORMATION

SERIES	INPUT VOLTAGE	LOGIC TYPE	TERMINATION	SENSE RESIST.	MTG. DIMS.
LDR	4 - 24 VAC 5 - 120 VAC 6 - 230 VAC	A - Drain B - Fill	1 - Barrier Block 2 - 3/16" Q.C. Terms. 3 - 1/4" Q.C. Terms.	A - Adj. to 100K ohms F - Fixed, specify resistance in 1K ohm increments up to 100K	N C * See opt. mounting dimension chart above

CONNECTION DIAGRAM

