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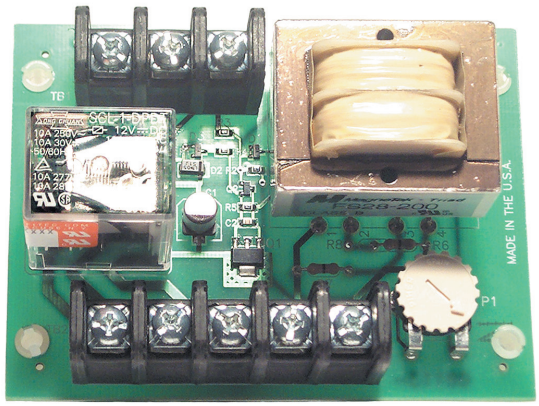
# LDR SERIES
# LIQUID LEVEL CONTROL
# DUAL PROBE



c UL us
UL/cUL Recognized

File E80165
UL Guide NKCR2
cUL Guide NKCR8

## 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

## SPECIFICATIONS

**1. Control**
1.1 Type: Resistance Sensing Circuitry for Pump/Fill Up or Pump/Drain Down Applications
1.2 Sensing Voltage: 12 VAC Nominal at Probe Terminals
1.3 Sensing Resistance: Factory Fixed or Adjustable from 1 to 100K Ohms
1.4 Sensing Resistance Tolerance: Factory Fixed ± 10% of Adjustable Guaranteed Range

**2. Input**
2.1 Operating Voltage: 24, 120, & 230 VAC
2.2 Tolerance: ±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: ±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°C to +80°C
6.2 Storage Temperature: -30°C to +85°C
6.3 Humidity: Conformal Coated to Resist Humidity

## MODE OF OPERATION

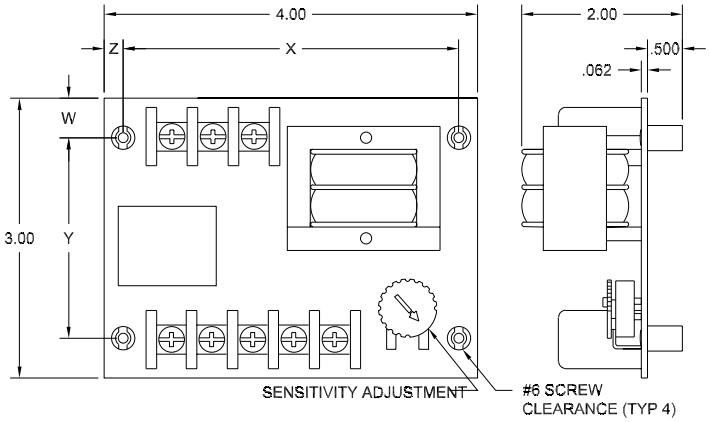
### DRAIN TYPE — SERIES LDR_A

Upon application of power to the input terminals, the relay will remain de-energized until the liquid makes contact with the upper probe. When the liquid makes 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.

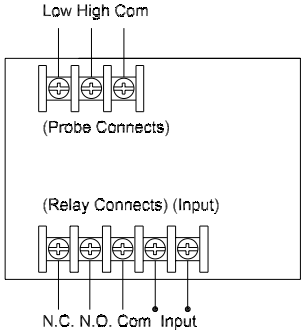
### FILL TYPE — LDR_B

Upon application of power to the input terminals, the relay will remain de-energized while the liquid level is between the upper and lower probes. When the liquid level falls below the the lower probe, the output relay energizes. When the liquid contacts the upper probe, the output contacts revert back to their original de-energized position.

## DIMENSIONS




## CONNECTION DIAGRAM




## ORDERING INFORMATION

| SERIES | INPUT VOLTAGE | LOGIC TYPE | TERMINATION | SENSE RESISTANCE | MOUNTING DIMENSIONS (See Diagram Above) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | W | X | Y | Z |
| **LDR** | **4 -** 24 VAC<br>**5 -** 120 VAC<br>**6 -** 230 VAC | **A -** Drain<br>**B -** Fill | **1 -** Barrier Block<br>**2 -** 3/16" Q.C. Terminals<br>**3 -** 1/4" Q.C. Terminals | **A -** Adjustable to 100K Ohms ex: **A30K**<br>**F -** Fixed Resistance, Specify in 1K Ohm Increments up to 100K Ohms ex: **F30K** | **N** | .44 | 3.62 | 2.12 | .19 |
| | | | | | **C** | .25 | 3.5 | 2.5 | .25 |