

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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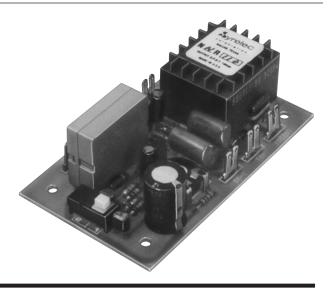


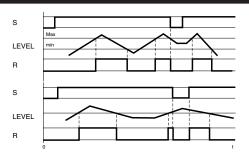
# NNR SERIES LIQUID LEVEL CONTROL PUMP UP OR DOWN

UL listed CSA recognized

- 10 Amp SPDT Rated
- Sensitivity Adjustment 4.7 k $\Omega$  to 47 k $\Omega$
- One, Two or Three Probe Operation
- 24 VAC to 220 VAC Voltages

SWITCH SELECTABLE





# **SPECIFICATIONS:**

Input ..... 24, 48, 110, 220 VAC

±15% (50/60 Hz)

Maximum power consumption . . 24 VAC: 1.5 VA

48 VAC: 1.7 VA 110 VAC: 2 VA 220 VAC: 2 VA SPDT relay

 Output
 SPDT relay

 Contact material
 AgCdO (90/10)

 Maximum loading
 10 A AC resistive
 1A DC inductive

 Maximum switching voltage
 250 VAC
 30 VDC

 Relay maximum power rating
 2500 VA
 30 VDC

Mechanical life of relay ........ 3 x 10<sup>7</sup> operations

Electrical life of relay ....... 2 x 10<sup>s</sup> at 2200 VA resistive load Probe isolation ....... Switching contact: 2000 VA

Electrodes: 2000 VAC

Probe current ..... 2 mA max.

Operating temperature ..... +14°F to 140°F -1

Weight

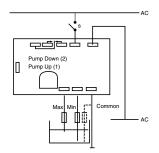
Weight ..... 4.6 oz. (130g)

**Note**: For best results use shielded cable with the probes and do not run probe cables with other wires.

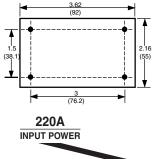
- A Pump down function: the output relay energizes when the liquid level reaches the high or max. probe. It remains energized until the level is below the low or min probe. The relay will remain de-energized until the high level is again reached. This control may also be used with only two probes by connecting the maximum and common terminals together. The output is energized when the low probe is in contact with the liquid.
- B Pump up function: when power is supplied to the unit, the output relay is energized. When the level reaches the high probe the relay is de-energized. The relay is energized again when the level falls below the lob probe. The control may also be used with only two probes by connecting the maximum and common terminals together. The output is de-energized when the level reaches the low probe.

In both functions, If the container is conductive, It may be used as the common probe in some applications

### WIRING DIAGRAM:



### **DIMENSIONS:**



NR SERIES SERIES

INPUT POWER

24A = 24 VAC
48A - 48 VAC

**48A** = 48 VAC **110A** = 110 VAC **220A** = 220 VAC

## **ORDERING INFORMATION:**



Products and specifications subject to change without notice.

Consult factory for application assistance.