

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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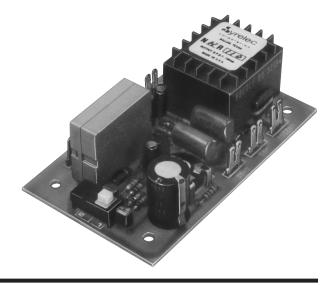


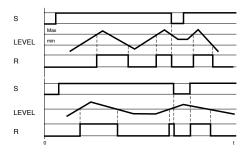


NR SERIES LIQUID LEVEL CONTROL **PUMP UP OR DOWN** SWITCH SELECTABLE

UL listed CSA recognized

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





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 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 10⁷ operations

Electrical life of relay 2 x 10⁵ at 2200 VA resistive load Probe isolation Switching contact: 2000 VA

Electrodes: 2000 VAC Probe sensitivity 4.7 K ohm to 47 K ohm

Probe voltage 24 VAC, 60 Hz Probe current 2 mA max.

Operating temperature +14°F to 140°F -10°C to +60°C

Weight 4.6 oz. (130g)

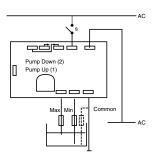
Note: For best results use shielded cable with the probes and do not run probe cables with other wires.

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.

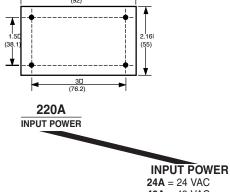
B - Pump up function: when power is supplied to the unit, the output relay is energized. When the level reaches the high probe the relay is de-energized. The relay is energized again when the level falls below the lob probe. The control may also be used with only two probes by connecting the maximum 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:



ORDERING INFORMATION:



NR

SERIES

SERIES

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





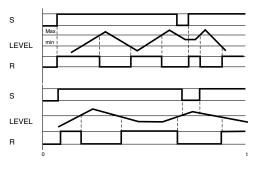


NRU SERIES LIQUID LEVEL CONTROL PUMP UP

UL listed CSA recognized

- LED Relay Indicator
- Three Styles
- Pump Up Control
- 4.7 k Ω to 100 k Ω Sensitivity
- 10 Amp SPDT Relay





SPECIFICATIONS:

Maximum loading...10A AC resistive8A DC resistiveMaximum switching voltage......80 VDCMaximum power rating......2500 VA80 WElectrical life......2 x 10° at 2200 VA resistive load

 Mechanical life
 .3 x 107 operations

 Probe isolation
 .Electrodes: 2000 VAC

 Probe sensitivity
 .4.7 K to 100 K ohms

 Probe voltage
 .24 VAC, 60 Hz

 Probe current
 .2 mA max

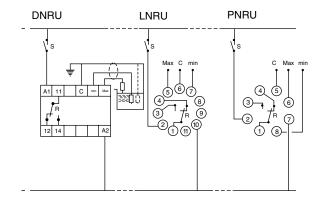
Note: The cable for probes (max 300ft) should be run in separate conduit. A shielded cable is recommended.

Control of conductive liquids (tap water, sea water, sewage, chemical solutions, coffee, ice cream, etc.)

The relay is energized when the level falls below the low level probe. It de-energizes when the high level probe is reached. The NRU will also control a single level. In this case, a single probe is used and the relay operates when the probe is not immersed. The Max terminal is connected to common with a jumper.

In either case, a common electrode is needed if the container is non-conductive.

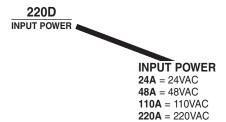
WIRING DIAGRAM:











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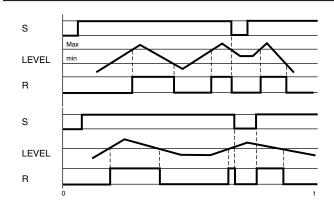


NR SERIES LIQUID LEVEL CONTROL PUMP DOWN

UL listed CSA recognized

- 24 VAC to 220 VAC Operating Voltages
- 4.7 k Ω to 100 k Ω Sensitivity
- LED Relay Indicator
- 10 Amp SPDT Relay





The output relay energizes when the liquid level reaches the high probe. The relay de-energizes when the liquid falls below the low probe. This control can also be used with only two probes by connecting the maximum and common terminals together. The output is 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.

SPECIFICATIONS:

30 Hz)

WIRING DIAGRAM:

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

 Output
 SPDT relay

 Contact material
 AgCdO

 Maximum loading
 10A AC resistive

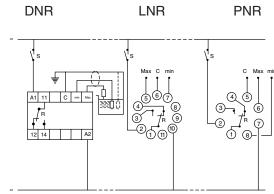
Maximum loading10A AC resistive8A DC inductiveMaximum switching voltage250 VAC250 VDCRelay maximum power rating2500 VA80 W

Mechanical life of relay 3 x 10⁷ operations

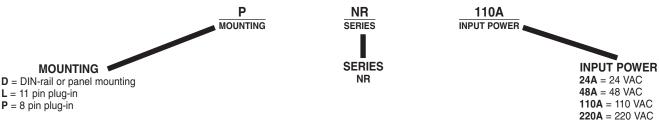
Probe sensitivity4.7 K to 100 K ohmsProbe voltage24 VAC, 60 HzProbe current2 mA max.

Operating temperature +14°F to 140°F -10°C to +60°C

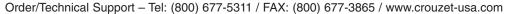
Weight 4.6 oz. (130g)



ORDERING INFORMATION:



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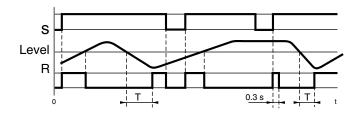


NRT SERIES LIQUID LEVEL CONTROL CONSTANT LEVEL PUMP UP

UL listed CSA recognized

- 100 kΩ Sensitivity
- 10 Amp SPDT Relay
- Maintain Constant Level
- Four Mounting Options





The NRT series is applied for maintaining a constant level of conductive liquid. When the liquid decreases below the probe, the relay is energized after a 4 second time delay to avoid wave disturbances. The relay de-energizes when the liquid reaches the probe. A common electrode is needed if the container is non-conductive.

SPECIFICATIONS:

Maximum power consumption ... 24 VAC: 1.5 VA

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

 Output
 SPDT Relay

 Contact material
 AgCdO

Relay maximum power rating \dots 2500 VA 80 W Mechanical life of relay \dots 3 x 10 7 operations

 Electrical life of relay
 2 x 105 at 2200 VA resistive load

 Probe isolation
 Switching contact 2000 VAC

 Electrodes: 2000 VAC

Probe sensitivity 100 $k\Omega$

 Probe voltage
 24 VAC, 60 Hz

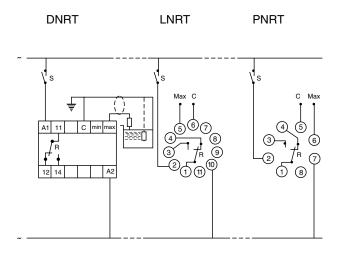
 Probe current
 1 mA max.

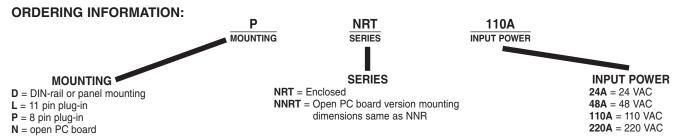
Operating temperature $\dots +14^{\circ}F$ to $+140^{\circ}F$ $-10^{\circ}C$ to $+60^{\circ}C$

Weight 7 oz. (200g)

Note: The probe cables (max. 300ft) need not be shielded; however, it is not advisable to run the probe cables with power cables. If shielded cable is used, the shield and common should be connected.

WIRING DIAGRAM:





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