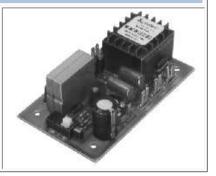


NNR Liquid-Level Controllers

Crouzet Products / Automation Controls / Control Relays / Liquid Level Controllers / NNR

PRODUCT FEATURES

- Open PCB liquid level controller
- Switch selectable pump-up / pump-down control
- Sensitivity adjustable from 4.7K to 47K Ohms
- One, two, or three probe operation
- 10 amp SPDT output relay



NNR Series	Liquid-Lev	el Controllers
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Mounting	<u>Style</u>	Input Power	<u>Output</u>	<u>Series</u>	Part number
Open B	oard	24 V AC	SPDT	NNR	NNR24A
Open B	oard	48 V AC	SPDT	NNR	NNR48A
Open B	oard	110 V AC	SPDT	NNR	NNR110A
Open B	oard	220 V AC	SPDT	NNR	NNR220A

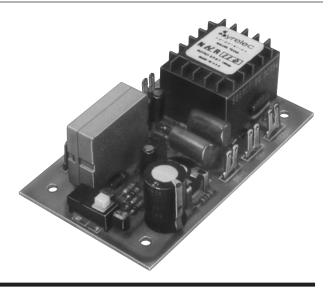


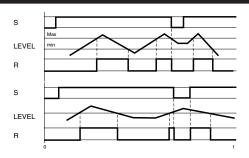
NNR SERIES LIQUID LEVEL CONTROL

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 loading10 A AC resistive1A DC inductiveMaximum switching voltage250 VAC30 VDCRelay maximum power rating2500 VA30 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

Weight

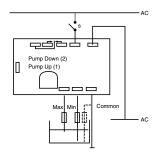
Weight 4.6 oz. (130g)

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

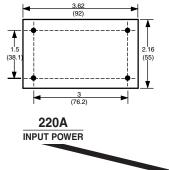
- A Pump down function: the output relay energizes when the liquid level reaches the high or max. probe. It remains energized until the level is below the low or min probe. The relay will remain de-energized until the high level is again reached. This control may also be used with only two probes by 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 **110A** = 110 VAC **220A** = 220 VAC

ORDERING INFORMATION:

