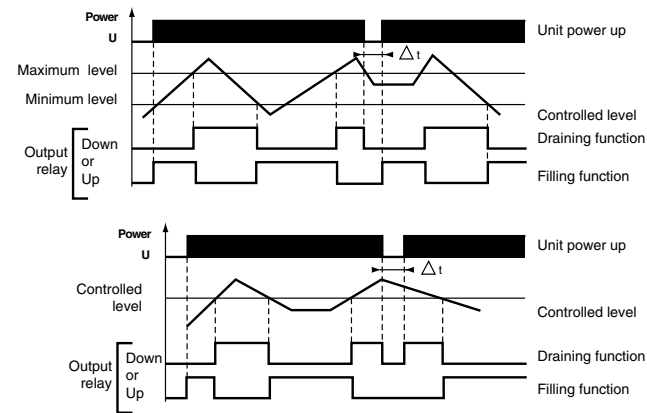


NR2 SERIES

LIQUID LEVEL CONTROL

UL listed CSA recognized

- Switch Selectable Pump Up or Down
- High and Low Sensitivity Models
- LED Power On Status
- LED Output Relay Status



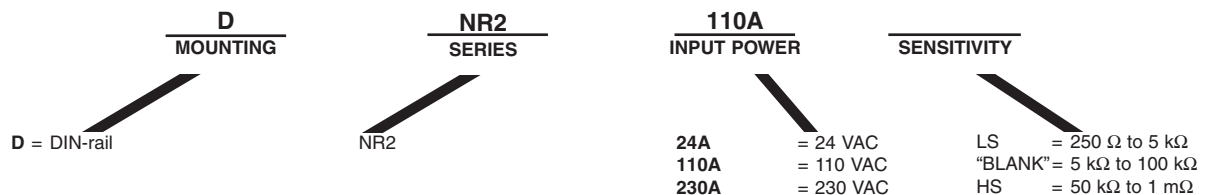
SPECIFICATIONS:

Input Power 24, 110, 230 VAC, ±15%
 Maximum Power Consumption 3 VA

| Available Types | Adjustable Sensitivity | Maximum Cable Capacitance |
|-----------------|------------------------|---------------------------|
| Low | 250Ω to 5 kΩ | 100 nF |
| Standard | 5 kΩ to 100 kΩ | 10 nF |
| High | 50 kΩ to 1 mΩ | 1 nF |

Electrode Voltage Maximum 24 VAC (50/60 Hz)
 Electrode Current Maximum 5 mA (50/60 Hz)
 Response time 100 ms at high level
 500 ms at low level
 Output relay 1 single pole changeover contact
 AgCdO 10 AAC
 Galvanic isolation by transformer Class II VDE 0551 (4 kV;
 creepage distance: 8mm)
 Isolation of contacts and electrodes with power supply 2 kV AC
 Operating Temperature -10°C to +60°C
 Storage Temperature -20°C to +70°C
 Weight 160 g

ORDERING INFORMATION:



GENERAL FEATURES:

Controls maximum and/or minimum levels of conductive liquids (tap water, seawater, waste water, chemical solutions, coffee, etc.) Applications for agri-foodstuffs, chemical industries etc. The operating principle is based on measuring the impedance of a liquid between two submerged sensors. When this value is less than the threshold set on the front panel of the unit, the output relay changes status. The sensors are energized using an AC current to avoid electrolysis.

1 - Regulation of two levels (minimum/maximum):

With the minimum electrode already submerged, the output relay changes status when the liquid level reaches the maximum electrode. It returns to its initial status when the minimum sensor is not longer in contact with the liquid.

NOTE:

-When power is restored after an interruption of 0.53 second or less; in "UP" mode the relay is immediately energized; in "DOWN" mode the relay remains de-energized. (Assuming liquid level is below max level).

2-Regulation of one level:

Connect the maximum and common terminals together. The relay will change state when the minimum probe enters or leaves the liquid.

OBSERVATION: If the tank is conductive (metallic), it can be used as the reference electrode (terminal C or 6).

NOTE:

- A red LED displays the state of the relay, LED "ON" = Relay "ON"
 -A green LED displays presence of the power supply

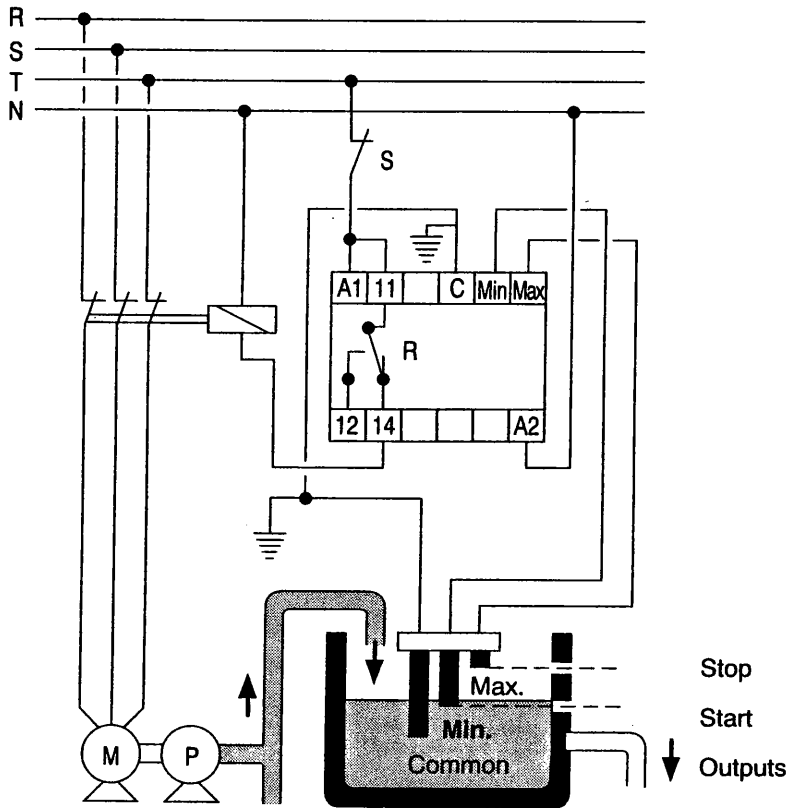
Products and specifications subject to change without notice.
 Consult factory for application assistance.

Wiring diagram and application

CN - DNR2 / LNR2

Regulating two levels

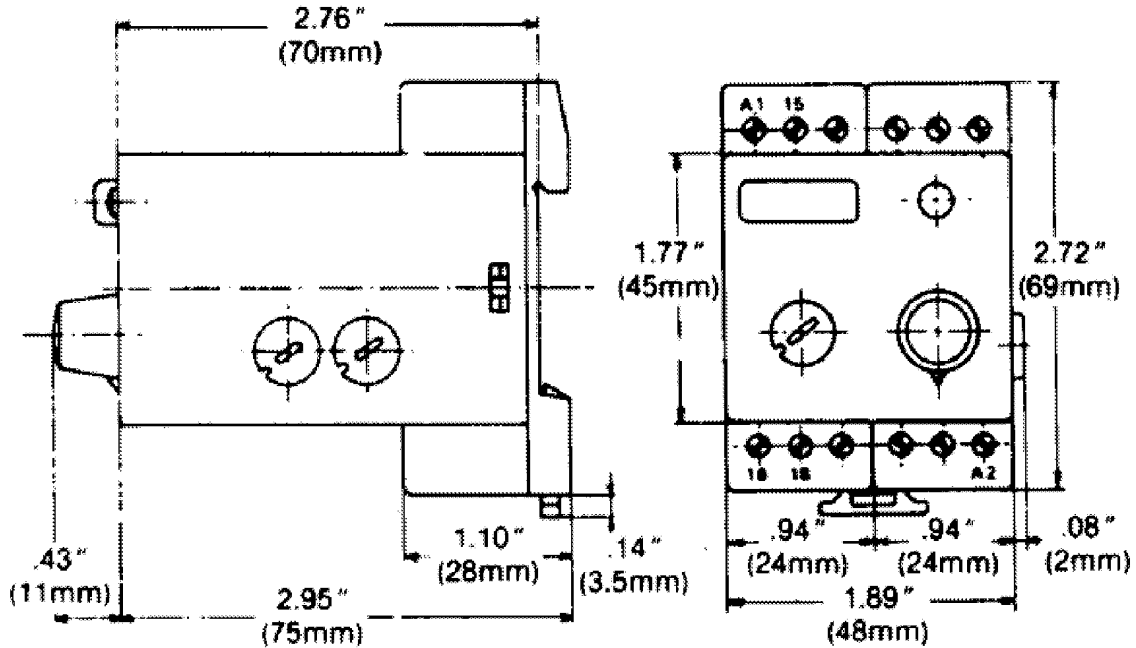
"Pump Up"



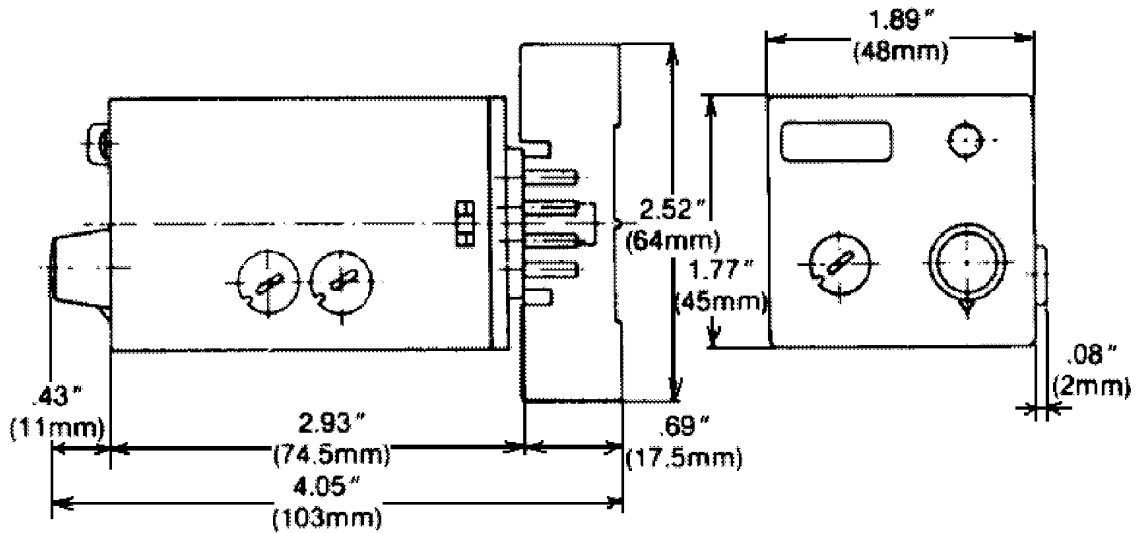
| CN - DNR2 | A1 | A2 | 11 | 12 | 14 | C | Min. | Max |
|-----------|----|----|----|----|----|---|------|-----|
| LNR2 | 2 | 10 | 1 | 4 | 3 | 6 | 7 | 5 |

DIMENSIONS:

D - DIN-Rail



L & P - Sockets



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