



Resistance Sensors (Dual Probe)

DLA and DLB Series

FEATURES

- Solid state sensing circuitry
- Dual probe level detection
- User adjustable sensing resistance
- Rugged octal plug-in housing
- Heavy duty internal construction
-   File #E61377

This family of Level Controls provides high and low level sensing with Pump Up or Pump Down capabilities. They are packaged in a standard octal plug-in housing. The probe and sensing circuit are isolated from line voltage via a transformer. The probe is driven with an AC signal to prevent plating. The output is an electro-mechanical relay rated at 10 A.

Operating Logic: In the Model DLA (Pump Down) the output relay is activated when the upper probe detects the presence of liquid and it remains activated until the lower probe detects the absence of liquid.

In the Model DLB (Pump Up) the output relay is activated when the lower probe detects the absence of liquid and it remains activated until the upper probe detects the liquid.

If the tank is non-conductive, a third (common) probe must be installed at a level where it will always be submerged.

SPECIFICATIONS

CONTROL TYPE

On/Off Resistance Sensing:

DLA Models: Probe resistance below set point activates relay

DLB Models: Probe resistance above set point activates relay

Sensing Voltage: 18 VAC, max. RMS

Sensing Current: 2.0 mA, max. RMS

Sensitivity Adjustment: 1K to 250 K ohms $\pm 10\%$, factory set at 100k ohms $\pm 10\%$

INPUT

Operating Voltage: 24, 120 or 230 VAC, $\pm 10\%$

Power Consumption: 1.2 VA max.

Frequency: 50/60 Hz

OUTPUT

Type: Relay contacts, SPDT (1 form C)

Rating: 10 A resistive at 120, 240 VAC; 100 mA at 5 VDC min. load current

Life:

Mechanical: 5,000,000 cycles

Electrical: 100,000 min. at full load

PROTECTION

Isolation: 1500 VAC between probe and other terminals

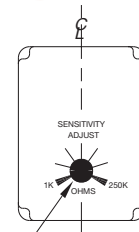
MECHANICAL

Terminations: 8-pin octal plug

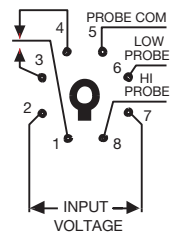
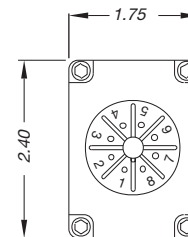
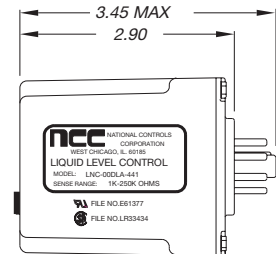
Mounting: Socket mount, part number MSO-0008P-012

ENVIRONMENTAL

Operating Temperature: -23°C to 55°C



SENSITIVITY ADJUST ACCESS COVER



PIN CONFIGURATION
DWG:4787/9/93

ORDERING INFORMATION

LOGIC TYPE	INPUT VOLTAGE	PART NUMBER
DLA - Pump Down	24 VAC	LNC-00DLA-447
DLA - Pump Down	120 VAC	LNC-00DLA-441
DLA - Pump Down	230 VAC	LNC-00DLA-445
DLB - Pump Up	24 VAC	LNC-00DLB-447
DLB - Pump Up	120 VAC	LNC-00DLB-441
DLB - Pump Up	230 VAC	LNC-00DLB-445

ACCESSORY	PART NUMBER
Probe Holder with Ground	LLH-11383-010
Probe, 6" Long, 1/4" Dia., S.S.	LLP-06.00-OSS
Probe, 12" Long, 1/4" Dia., S.S.	LLP-12.00-OSS
Probe, 24" Long, 1/4" Dia., S.S.	LLP-24.00-OSS
Probe Assembly, Plastic Body	LLP-001/2-011
Octal Socket, Back Panel Mount	MSO-0008P-012
Hold Down Strap for Control	ASY-STRAP-7.00L