



# Resistance Sensors (Single Probe, Pump Up Logic with Time Delayed Output)

## Model NS156

### FEATURES

- 100% functionally tested
- Solid state sensing circuitry
- Isolated UL Class II sensing voltage
- 1/4" male fast-ons for circuit connection
- Conformal coating to protect circuit from harsh environments
-   File #E61377

**Operating Logic:** As liquid is removed from a tank and contact with a probe is interrupted, a fixed time delay is started. At the end of the time delay, the output is activated until the level rises and contacts the probe.

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

### SPECIFICATIONS

#### CONTROL TYPE

**On/Off Resistance Sensing:** Probe resistance above set point activates fill output after a fixed time delay

**Sensing Voltage:** 15 VAC, max. RMS

**Sensing Current:** 2 mA, max. RMS

**Sensitivity Adjustment:**

NS156: Factory set at 100 K ohms  $\pm 10\%$

**Activate Time Delay:**

NS156: 5 sec.  $\pm 1$  sec.

#### INPUT

**Operating Voltage:** 120, 240 VAC,  $\pm 10\%$

**Power Consumption:** 3.0 VA max.

**Frequency:** 50/60 Hz

#### OUTPUT

**Type:**

NS156: Solid state switch, .75 A at 25°C, .34 A at 77°C

**Life:**

NS156: 1,000,000 cycles min. at full load

#### PROTECTION

**Isolation:** 1500 VAC between probe and other terminals

**Transient Voltage:** Protected by 30 joule metal oxide varistor

**Coating:** Conformally coated with RTV to protect against moisture

#### MECHANICAL

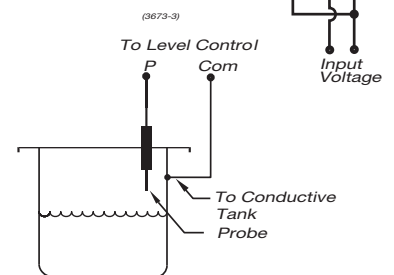
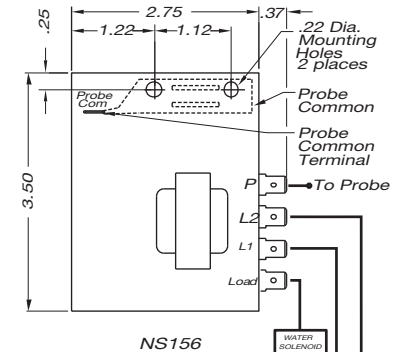
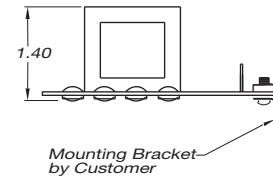
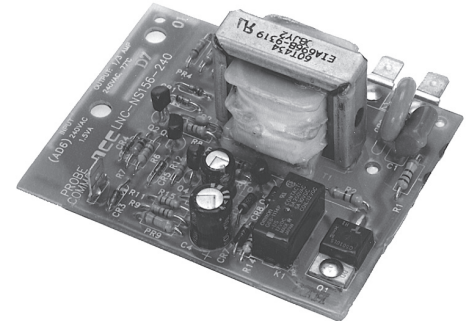
**Terminations:** 1/4" x .032" fast-ons

**Mounting:** 2 -.218" dia. holes

#### ENVIRONMENTAL

**Operating Temperature:**

NS156: +5°C to 77°C



Typical Probe Connection

### ORDERING INFORMATION

LOGIC TYPE	INPUT VOLTAGE	PART NUMBER
Pump Up	120 VAC	LNC-NS156-120
Pump Up	240 VAC	LNC-NS156-240

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