



DC VOLTAGE SENSOR

1310

DESCRIPTION:

The Hi-G 1310 Series DC Voltage Sensor is essentially a voltage monitoring device operating a snap-action transistor circuit with low drift and inherent temperature compensation. This device will either open or close a circuit when a predetermined voltage is present at the input. By using a Hi-G electro-mechanical relay as the output of the voltage sensor, a positive switching action can be achieved with very close difference between pull-in and drop-out voltages.

The unit is potted and hermetically sealed and are designed to meet the environmental requirements of airborne applications and MIL-R-83726 .

ELECTRICAL SPECIFICATIONS

Pull-In Voltage: Any voltage level between 10 to 150 VDC.

Drop-Out Voltage: 0 to 0.5 volts below pull-in voltage.

Current Drain: 15 mA max. @ 25°C.

Accuracy: $\pm 2\frac{1}{2}\%$ of set point over temperature range.

Maximum Allowable Applied Voltage: 150% of specified pull-in voltage.

Auxiliary Voltage: None required.

Operate and Release Times: 50 milliseconds maximum over the temperature range.

Contact Arrangements: 2PDT.

Contact Rating: 2 amperes resistive at 30 volts DC, 0.3 amperes resistive at 115 volts RMS, 400 Hz.

ENVIRONMENTAL SPECIFICATIONS:

Temperature Range: -55°C to +125°C

Vibration: 20 G's, 10 to 2000 Hz.

Shock: 50 G's, 11 \pm 1 milliseconds duration.

Insulation Resistance: 1000 Megohms, minimum at 500 volts DC, all terminals to case.

Dielectric Strength: 1000 volts RMS, 60 Hz at sea level, all terminals to case.

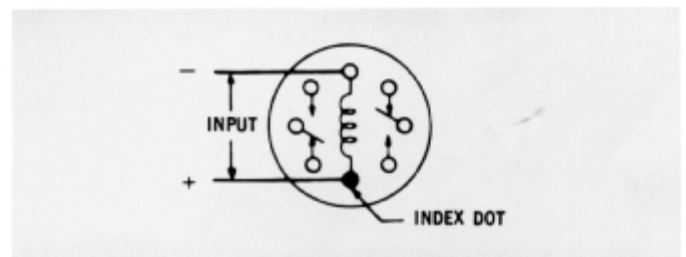
Sealing: Hermetic, 1.3 inches of mercury.

Life: 100,000 operations minimum

Weight: 3.5 oz. max.



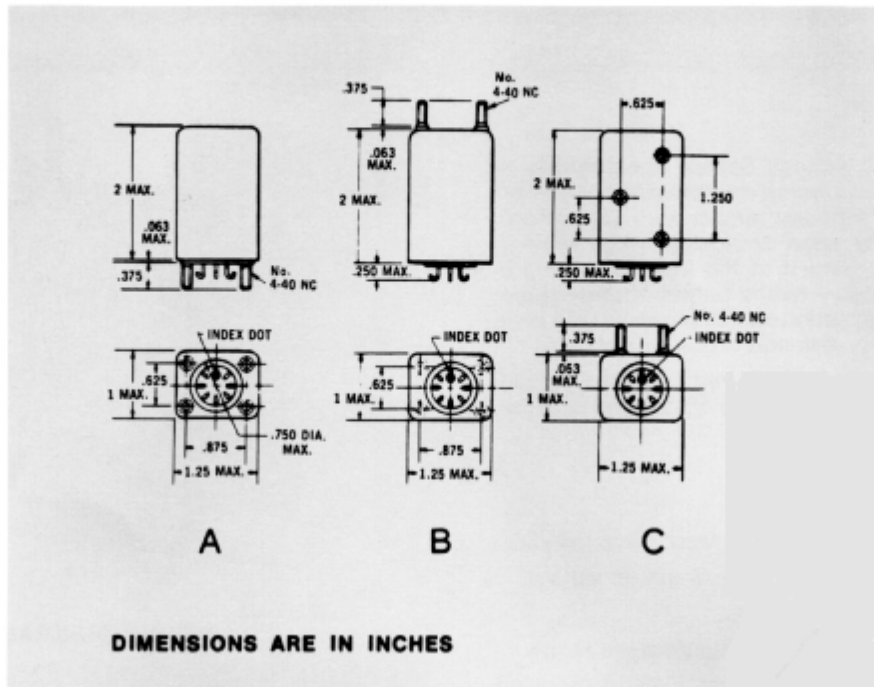
WIRING DIAGRAM



OPTIONS:

- Solid-State Output
- Two Stage Sensing (Voltage Band)
- Up to 10 A Relay Output
- Controlled Drop-out Differential
- Operate with Auxiliary Control Voltage
- Time Delay on Trip Point
- Tighter Accuracy
- Different Package, Header, Mounting

MECHANICAL SPECIFICATIONS



HOW TO ORDER:

Example: **Hi-G Part Number**

 1310 — 2 — A — 24.5

MODEL NUMBER PULL-IN VOLTAGE

2PDT ————— MOUNTING