



AC VOLTAGE LEVEL SENSOR

1350

DESCRIPTION:

The Hi-G 1350 Series AC Voltage Sensor energizes a relay when the monitored power line voltage reaches a predetermined level. This rugged unit with reliable solid-state design, provides precise, repeatable operation over a wide temperature range.

The input voltage is fed into a temperature compensated comparator circuit. When the input reaches the pre-set level, transistor amplifiers switch the output relay. This output may control any external devices, process, or warning system to protect expensive equipment.

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

ELECTRICAL SPECIFICATIONS

Pull-In Voltage: Any voltage level between 50 to 150 VAC in 1.0 volt increments.

Drop-Out Voltage: 0 to 3.0 V max. (1.5 V nom.) below pull-in voltage.

Current Drain: 100 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 ± 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.

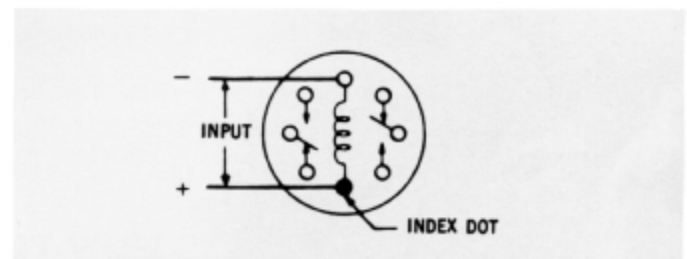
Sealing: Hermetic, 1.3 inches of mercury.

Life: 100,000 operations minimum

Weight: 3.5 oz. max.



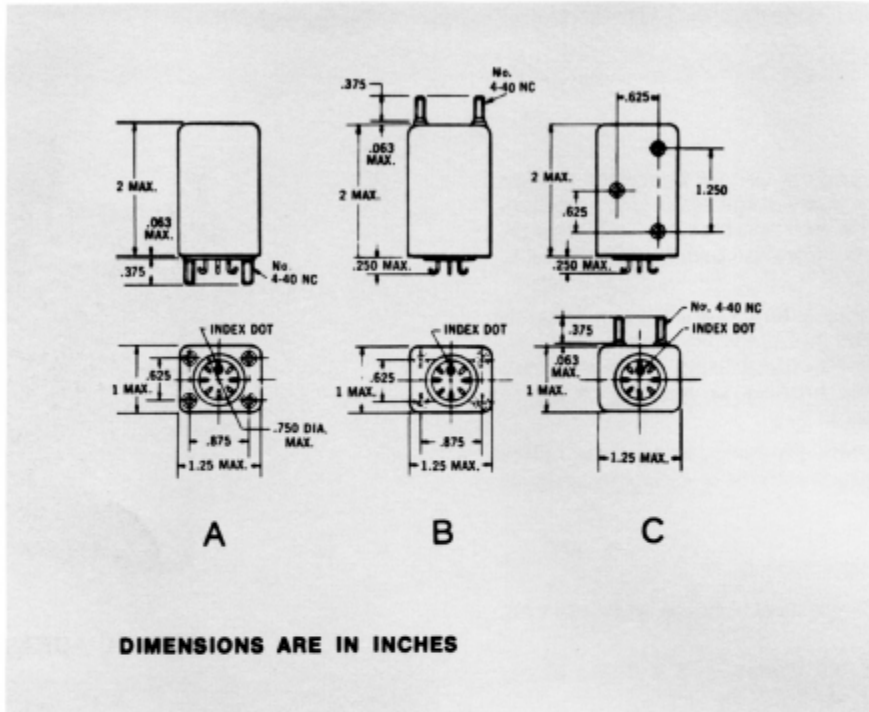
WIRING DIAGRAM



OPTIONS:

- Solid-State Output
- Two Stage Sensing (Voltage Band)
- Up to 10 A Relay Output
- 3 Phase AC Version Available
- Controlled Drop-out Differential
- Operate with Auxiliary Control Voltage
- Under and Over Voltage Trip
- Time Delay on Trip Point
- Tighter Accuracy
- Lower Trip Points
- Different Packages, Mounting & Header

MECHANICAL SPECIFICATIONS



HOW TO ORDER:

