



Product Facts

- Standard models combine DC voltage-sensing circuit with 2A DPDT output relay.
- Various applications
 - Battery protection
 - Computer protection
 - Low or high voltage alarms
- Many customizing options
 - Solid state output
 - Two-stage sensing (voltage band)
 - Up to 10A relay output
 - Controlled dropout differential
 - Operate with auxiliary control voltage
 - Time delay on trip point
 - Tighter accuracy
 - Different package, mounting, header



The CII 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

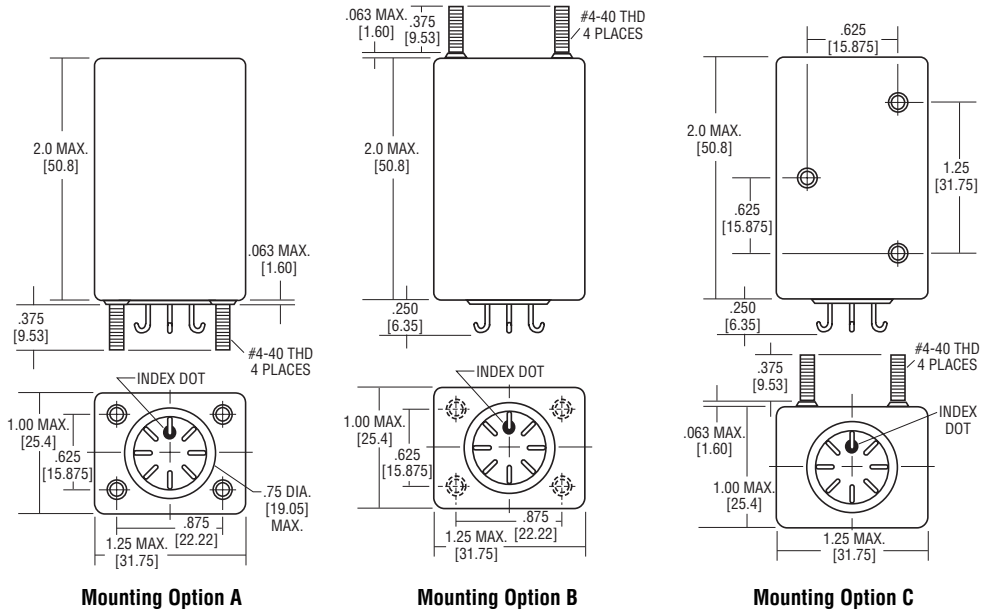
close a circuit when a predetermined voltage is present at the input. By using a CII electromechanical relay as the output of the voltage sensor, a positive switching action can be achieved with

very close differential between pull-in and drop-out voltages. The unit is potted and hermetically sealed and is designed to meet the environmental requirements of MIL-R-83726.

Electrical Specifications

- Pull-In Voltage:** Any voltage level between 10 to 150Vdc.
- Drop-Out Voltage:** 0 to 0.5V below pull-in voltage.
- Current Drain:** 15mA max @ 25°C.
- Accuracy:** ±2.5% of set point over temperature range.
- Max. Allowable Applied Voltage:** 150% of specified pull-in voltage.
- Auxiliary Voltage:** None required.
- Operate and Release Times:** 50ms max. over the temperature range.
- Contact Arrangement:** 2 Form C (DPDT).
- Contact Rating:**
2 amps resistive @ 30Vdc
300mA resistive @ 115 Vrms, 400 Hz.

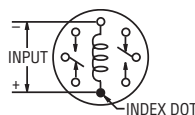
Outline Dimensions



Environmental Specifications

- Temperature Range:** -55°C to +125°C.
- Vibration:** 20 G's, 10 - 2,000 Hz.
- Shock:** 50 G's, 11 ± 1ms duration.
- Insulation Resistance:** 1,000 megohms, min., at 500Vdc, all terminals to case.
- Dielectric Strength:** 1,000Vrms, 60 Hz., at sea level, all terminals to case.
- Sealing:** Hermetic, 1.3 in. (33.0mm) of mercury.
- Life:** 100,000 operations, min.
- Weight:** 3.5 oz (99.2g) max.

Wiring Diagram



Part Numbering System

Typical Part Number	1310	- 2	A	- 24.5
Series:	1310 = DC Voltage Level Sensor, Relay Output			
Contact Form:	2 = 2 Form C (DPDT)			
Mounting (see outline dimension drawings):	A = Studs on bottom B = Studs on top C = Studs on side			
Pull-In Voltage:	Specify any level between 10 and 150Vdc			

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