

Product Overview

NCV1124: Comparator, Dual, Variable-Reluctance Sensor Interface

For complete documentation, see the data sheet.

The NCV1124 is a monolithic integrated circuit designed primarily to condition signals from sensors used to monitor rotating parts. The NCV1124 is a dual channel device. Each of the two identical channels interfaces with a variable-reluctance sensor, and continuously compares the sensor output signal to a user-programmable internal reference. An alternating input signal of appropriate amplitude at IN1 or IN2 will result in a rectangular waveform at the corresponding OUT terminal, suitable for interface to either standard microprocessors or standard logic families.

Features

- Two Independent Channels
- Internal Hysteresis
- Built - In Diagnostic Mode

Applications

- Crankshaft / Camshaft Position Sensor

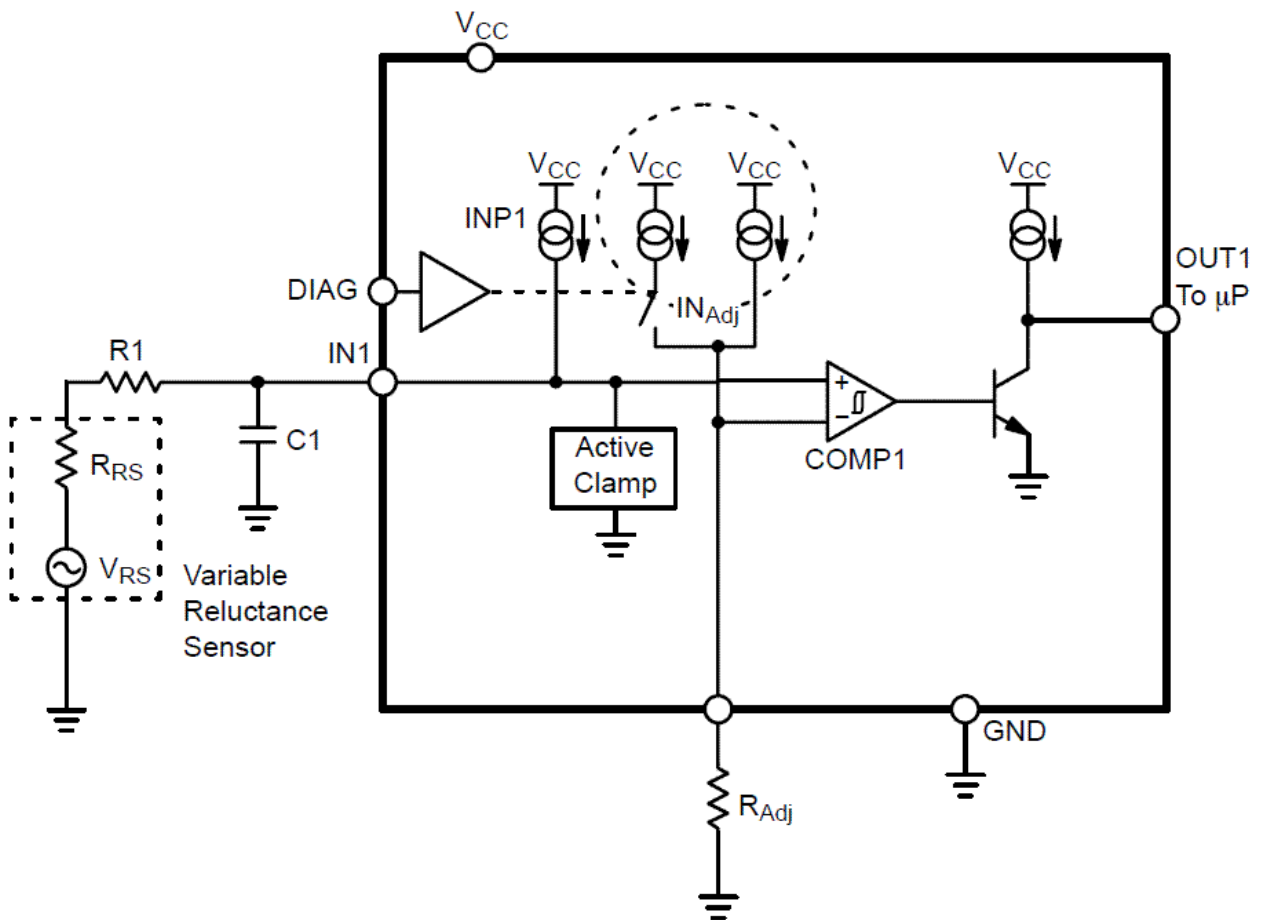
End Products

- Automotive

Part Electrical Specifications

| Product | Compliance | Status | Channels | V _{CC} Min (V) | V _{CC} Max (V) | I _O Typ (mA) | I _{CC} Typ (mA) | t _{res} Typ (ns) | V _{IO} Max (mV) | T _A Min (°C) | T _A Max (°C) | Package Type |
|-------------|---|--------|----------|-------------------------|-------------------------|-------------------------|--------------------------|---------------------------|--------------------------|-------------------------|-------------------------|--------------|
| NCV1124DR2G | AEC Qualified PPAP Capable Pb-free Halide free | Active | 2 | 4.5 | 5.5 | - | - | - | - | -40 | 125 | SOIC-8 |

Application Diagram



For more information please contact your local sales support at www.onsemi.com.

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