

# Throttle Position Sensors

**Situation:** Repetitive movement of sensor contact fingers over the circuit board causes hesitation; thermal cycling and vibration crack circuit boards and break solder joints.

**Solution: Wells Advantage**

Two problem-solving designs extend product life and eliminate vehicle hesitation. The company's contact-type sensors feature an advanced flexible circuit board, spring pressure clips and precision-matched conductive ink and contacts. Non-contact sensors with Hall-effect integrated circuitry eliminate wear issues associated with OE designs.

**Repair tips:**

- Test throttle position sensors with voltage moving through the circuit to reveal the parts' true operating characteristics. Testing with an ohmmeter will lead to false "noise" on the signal line.
- Non-contact sensors cannot be tested with an ohmmeter.
- Faulty connector termination can be difficult to diagnose. Replace harness pigtail whenever an intermittent fault is detected or if it shows signs of damaged wires or seals.

**Features:**

- No solder connections
- Uninterrupted circuit board "contact"
- OE style brackets, hold-downs, hardware and spacers
- Precision-matched conductive circuit board ink and contacts
- Wear-resistant circuit inks
- Flexible circuit board
- Spring pressure clips

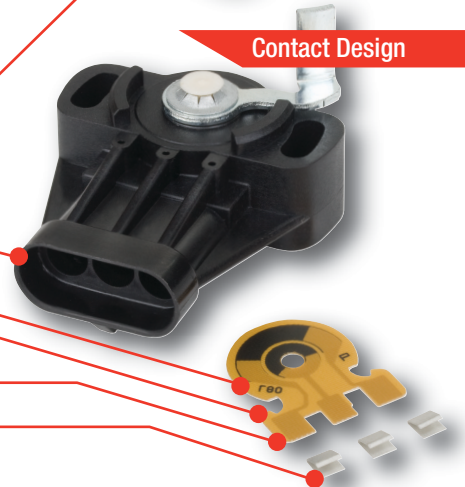
**Benefits:**

- Superior resistance to heat and vibration
- Longer component life
- Meets or exceeds OE performance
- Precisely engineered for easy installation
- Increased customer satisfaction
- Comprehensive factory warranty

Non-Contact Design



Contact Design



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