

Proximity Sensor Testing



Proximity Sensor Application Notes

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For standard testing methods, see Application Notes: Proximity Sensor Operation. These methods include operate, release, actuator alignment, magnetic overdrive, milli-Tesla, and contact resistance.

The following tests can be performed by HSI Sensing and are outside of our standard testing methods.

Voltage Breakdown

This test measures the voltage level a switch can withstand across its open contacts without excessive leakage current. This test can be done in AC and/or DC voltage.

Insulation Resistance

This test measures the DC resistance across the open contacts, measured in Ohms with an ohmmeter and the switch in a de-energized state. The test voltage is typically 100 Volts.

Grounding

HSI Sensing can check a proximity sensor that contains a wire connected to the metal housing for proper grounding. Electrical isolation to all other internal proximity sensor components is also validated.

Customer-Specific Testing

HSI Sensing can replicate testing a sensor in the end-use application for 100% compliance.

HSI Sensing engineering staff can also assist in or design custom test equipment.