



Precision Products / Measuring

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Kaman Measuring Highlights DIT-5200L Noncontact Differential Measuring System

High precision eddy current balanced bridge technology at an affordable price

Middletown, CT – The Measuring Division of Kaman Precision Products, Inc., the world leader in the design and manufacture of high-performance position measurement systems, highlights the DIT-5200L non-contact displacement measuring system, ideal for fast-steering mirrors, servo control position feedback, stage positioning, and angular displacement indication, as well as X-Y orbit position feedback and stylus position. Offering differential for common mode rejection at an economical price, the DIT-5200L provides advanced precision measurement technology with exceptional resolution, repeatability, and nulling accuracy. Applications for the DIT-5200L include laser communications, optical stabilization, and magnetic bearings.

The DIT-5200L features enhancements to Kaman's previous DIT-5200 product, resulting in lower noise (better resolution) and CE Marking. Capable of sub-nanometer resolution, the DIT-5200L provides thermal stability of ± 0.03 percent and high sensitivity – up to 10 volts per mil (V/mil), or 39 millivolt/per micron (mV/ μm).

With a small package size of only 7.7 cubic inches, the DIT-5200L is extremely linear, to 0.1 percent of the full range, and is available in both single and dual channel configurations. The DIT-5200L signal conditioning electronics is packaged in a die cast aluminum box with MCX style sensor connections. Input/output (I/O) is on a 9 pin mini-D connector. The input power connections are reverse voltage protected. The DIT-5200L Measuring System is built from commercial off the shelf (COTS) components, allowing it to be produced at a lower cost and at a higher volume than the alternatives.

The DIT-5200L uses high precision eddy current balanced bridge technology for detecting the aligned/centered position of a conductive target relative to a pair of non-contacting sensors. For differential measurement applications, two precisely matched sensors per channel are positioned on opposite sides or ends of a target. In this sensor-to-target relationship, as the target moves away from one sensor, it moves toward the other sensor an equal amount. Output is differential and bipolar. Electrically matched sensors on opposing legs of the same bridge provide exceptional thermal stability.

For more information, visit <https://www.kamansensors.com/product/dit-5200l/>. To learn about Kaman Measuring products, visit <http://www.kamansensors.com>.

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About Kaman Precision Products Measurement Division

Kaman Precision Products Measurement Division is a worldwide leader in the design and production of high-performance, precision non-contact position measuring systems using inductive, Eddy current technology. Recognizing that each customer has specific individual requirements, Kaman consults with customers to help choose the best sensor, conditioning electronics, and calibration for each application. With more than 40 years of experience, our advanced family of high-precision position sensors is used in hundreds of applications in aerospace, automotive, energy, metals production, metalworking industries, and many others.

Part of Kaman Corporation of Bloomfield, Connecticut, we design and manufacture our products at a state of the art production facility that meets AS9100/B and ISO 9001:2000 quality management system requirements.

For more information call 800-552-6267, email measuring@kaman.com or go to www.kamansensors.com.