



Precision Products / Measuring

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CONTACT: Kristin Nugent

McNeil, Gray & Rice

617-367-0100, ext. 148

kristin.nugent@mgr1.com

Kaman Measuring Announces KD-5100+ High Reliability Sensor System for Fast Steering Mirror Control

Retains proven performance with updates to circuit layout, ground connections, and sensor connectors

Middletown, CT – The Measuring Division of Kaman Precision Products, Inc., a world leader in the design and manufacture of high-performance, precision non-contact position measuring systems, announces the KD-5100+, an upgraded higher reliability version of Kaman’s legacy KD-5100 measuring system. The KD-5100+ retains the proven performance of the KD-5100 system while incorporating upgrades to the circuit layout, ground connections, and sensor connectors. The upgraded system also features higher reliability diodes and capacitors.

The KD-5100+ is the ideal choice for laser communications, satellite and ground station applications, as well as directed energy (ground, shipboard, and airborne), and image stabilization systems.

Two precisely matched sensors of a measuring channel are positioned opposite each other on the back of a fast steering mirror (FSM) in two axes at 90 degrees to each other. As the FSM actuators drive the mirror about the center flexure, the mirror moves away from one sensor of an axis and toward the other sensor an equal amount. The KD-5100+ output signal is used to actively control mirror position.

At the heart of the upgraded KD-5100+ is a Mil-PRF-38534 Class H proprietary hybrid microcircuit. The system also features dual channel signal conditioner with two precisely matched sensors per channel.

Designed for thermal and long term stability, radiation tolerant, and suitable for vacuum applications, the KD-5100+ offers a small package size and low power consumption. It features isolated signal and chassis grounds and low outgassing components.

Signal conditioning electronics are available in the identical low profile enclosure as the KD-5100. Enclosure finish can be either black paint for low reflectivity or bright nickel finish for lower outgassing. Sensor and signal conditioner packaging can be customized for unique requirements.

Kaman offers high-precision, electro-mechanical contract manufacturing at its 215,000 square foot facility, with assembly to IPC-A-610 Class III and component traceability. Complete end-item data package (EIDP) development is available upon request. The Measuring Division of Kaman Precision Products follows rigorous aerospace quality systems. The manufacturing facility is certified to AS9100 and ISO 9001:2000 and features a class 100 clean room.

For more information about the new KD-5100+ high reliability sensor system for fast steering mirror control, visit <https://www.kamansensors.com/product/kd-5100-plus/>. 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 are used in hundreds of applications in aerospace, automotive, energy, metals production, metalworking industries, and many others. For more information call 800-552-6267, email measuring@kaman.com or go to www.kamansensors.com.

