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Kaman Measuring Highlights KD-2306 Non-Contact Displacement Sensing System

Advanced non-contact displacement sensing for reliable performance across demanding industrial environments

Middletown, CT – The Measuring Division of Kaman Precision Products, Inc., a global leader in high-performance, non-contact position measuring systems, highlights its KD-2306 single-channel, multi-purpose non-contact displacement sensing system. When paired with any supported dual or single-coil sensor, the KD-2306 offers an easy-to-use, high-precision solution for both static and dynamic measurements, ideal for industrial applications.

The KD-2306 supports both dual and single coil sensors, ensuring broad compatibility and versatility. Its DIN rail mount interface simplifies integration into OEM equipment and industrial control systems. Terminal I/O connections and auto-synchronization of multiple channels facilitate system expansion, while multiple output options, including analog DC (0-10 VDC standard), 4-20mA, single-ended, bipolar, and differential voltage outputs, provide flexible connectivity to automation and control hardware. The device features front face coarse and fine calibration controls allowing precise, onsite adjustments. It meets international environmental and safety standards, being RoHS compliant and CE marked.

With a high resolution of 0.01% full scale (FS) and frequency response up to 50 kHz (-3dB point), the KD-2306 is suitable for high-speed dynamic measurements and static applications alike. It exhibits low nonlinearity of under 1% FS and thermal sensitivity compensated to as low as 0.02% FS/°F, ensuring excellent stability across varying temperatures. Factory calibration is provided with a NIST traceable certificate, while potentiometers enable user recalibration for zero, gain, and linearity. The electronics operate reliably within a temperature range of 0°C to +55°C and can be stored safely between -55°C and +105°C.

The system offers extensive customization options such as extended sensor cables, special calibration ranges, temperature compensation (including cryogenic applications), and custom sensor designs. Accessories including power supplies, micrometer calibration fixtures, and ceramic calibration spacers allow further tailoring to specific needs. Additionally, treatments like microseal moisture resistance enhance durability.

Ideal as a cost-effective alternative to traditional displacement devices like LVDTs, air gauges, dial indicators, and micrometers, the KD-2306 excels in OEM machine control, industrial automation, production process monitoring, quality control, as well as laboratory and research measurements. It delivers reliable, non-contact, and maintenance-free displacement sensing even in demanding industrial environments.

For more information about the KD-2306 single-channel multi-purpose non-contact displacement sensing system, visit KD-2306 - KAMAN or to learn about Kaman Measuring products, visit http://www.kamansensors.com.

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.