Easy-to-assemble encoders rated to 256 pulses per revolution, up to 5,000 RPM…

TT ELECTRONICS OPTEK TECHNOLOGY OFFERS ONE OF THE INDUSTRY'S MOST COST-EFFECTIVE MINIATURE INCREMENTAL ENCODERS

CARROLLTON, TX (May 11, 2010) – Providing design engineers with a cost-effective, high pulse per revolution device for applications with small shaft motors, TT electronics OPTEK Technology offers a family of low-cost miniature incremental encoders. The OPE1275 and OPE2275 single- and dual-channel encoders are designed specifically for use in printer motors, machine automation and machine safety equipment.

"The OPE1275 and OPE2275 encoders are some of the most cost-effective miniature incremental encoders in the industry," said Roland Chapa, vice president of optoelectronic integrated solutions for TT electronics OPTEK Technology. "These miniature incremental encoders cost less than half that of comparable incremental encoders available on the market."

In addition to the low cost, the analog output miniature encoders feature 256 pulses per revolution at speeds of up to 5,000 RPM. The encoders are also easy to install, requiring only a Phillips screwdriver for assembly. The extended shaft versions of the encoders are fully assembled and ready for immediate connection.

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The OPE1275 encoder provides a single-channel analog output for speed of rotation, while the OPE2275 device provides a dual-channel analog output for speed and direction of rotation. Electrical connection is achieved via a 4-pin connector providing V+, ground and output pins.

Frequency response ranges from DC to 25kHz, providing a maximum of 256 cycles per revolution (CPR) and 1024 quadrature states per revolution (PPR). Typical rise and fall times are 500ns and 100ns, respectively. Supply voltage (V_{CC}) is 5.0, while supply current (I_{CC}) is 21mA. Operating temperature ranges from 0°C to +85°C.

OPTEK Technology, a division of TT electronics, is a leading manufacturing and solutions provider for sensing and illumination covering the infrared, visible and ultraviolet spectrum; with standard as well as application specific products for a variety of markets, including, but not limited to office machines, industrial equipment, encoders, automotive electronics, military and high-reliability applications, medical diagnostic equipment and solid-state lighting. Headquartered in Carrollton, TX, the company is ISO/TS16949:2002 and BS EN ISO 9001:2000 certified, as well as ITAR registered.

TT electronics plc is a global electronics company manufacturing a broad range of advanced electronic components, assemblies and sensor modules for the automotive, industrial, telecommunication, computer and aerospace markets.

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