

Turck Introduces EtherNet/IP Encoders for High-Speed Applications

Minneapolis MN, September 21, 2016 – Turck announces the availability of EtherNet/IP enabled encoders, providing an optical based encoder solution with electronic multi-turn capabilities for position applications requiring feedback for customers using the EtherNet/IP and CIP (common industrial protocol) interface. Common applications for the ODVA-certified encoder include automotive production, logistics, metal processing, textile applications, as well as printing and packaging machines.

The new EtherNet/IP encoders are available in both singleturn (RS-107/108) and multiturn (RM-105/106) variants and come with a diameter of 58 mm, offer a total resolution of up to 32 bits (16 for singleturn, 16 for multiturn), and have been designed specifically for high-speed applications. The encoders offer a RPI (requested packet interval) time of 1 ms, and allows operation in high-speed applications with up to a 1,000 Hz update frequency. These features allow users to save time and costs.

The RS-107/108 and RM-105/106 EtherNet/IP encoders offer a cost effective, compact EtherNet/IP encoder solution with Device Level Ring (DLR) capability. The DLR capabilities allow the network to stay active even if one direction of the communication bus lines is compromised. This is a bi-directional communication capability built into the encoder. For the customer it means that their process can continue while one unit is off-line, greatly influencing efficiency and reducing costly down-time.

The RS-107/108 and RM-105/106 encoders are available in solid shaft and blind hollow shaft versions, with the blind shaft version having diameters up to 15mm. The encoders feature an operating temperature range from -40 °C to +80 °C and are IP65 rated. Additionally, thanks to their optical design, the encoders are highly immune to interference from magnetic fields.

Selling Strengths

- EtherNet/IP encoder solution
- Available in both singleturn and multiturn variants
- Provides robust solution for position applications requiring feedback
- Device Level Ring (DLR) capabilities
- Highly immune from magnetic interference

Product Specifications

- Both solid shaft and blind hollow shaft available
- 58 mm diameter
- RPI time of 1 ms, up to a 1,000 Hz update frequency
- 32 bit resolution
- Temperature range of -40 °C to +80 °C
- IP65 rated



The RS-107/108 and RM-105/106 provides users with a EtherNet/IP encoder solution for high-speed applications

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