

New EH036 miniature absolute encoder with Energy Harvesting Technology

Lika Electronic has developed the new family EH036 of miniature absolute encoders with optical scanning. It offers very high resolutions, spans a variety of mechanical and electrical options, and is equipped with the Energy Harvesting Technology, all within an extremely compact and rugged 36-mm housing.

- Optical singleturn and multiturn encoder with SSI and BiSS interfaces
- Compact & rugged design, Ø 36mm flange
- Available with 6-mm solid and blind hollow shafts
- Up to 25 bit singleturn and up to 16 bit multiturn resolution
- Energy Harvesting Technology



The **EH036** is the new family of miniature optical absolute encoders from Lika Electronic.

It is designed to replace the AS36/AM36 optical series in the next future.

In order to provide maximum flexibility in the design of the mechanical interface, the EH036 encoder is available in two 36 mm diameter flange types with both 6-mm solid shaft and blind hollow shaft. The extremely compact design facilitates the integration of the encoder even where installation space is limited and helps reduce machine size. The enclosure is robust with a protection rating of IP67, the encoder can safely operate in harsh industrial environments.

The EH036 encoder uses an optical measuring method and achieves up to **25 bit singleturn resolution** (33,554,432 cpr) and up to **16 bit multiturn resolution** (65,536 revolutions). Despite the small size, it also integrates the Energy Harvesting Technology circuit.

The multiturn counter is **battery-free and gearless**, allowing the encoder to be even lighter and more compact and to reduce the risk of mechanical failures.

The absolute position is provided via the **SSI and BiSS C-mode interfaces** through cable and M12 connections. The temperature range of the EH036 extends from -40°C to +100°C / -40°F +212°F to cover many industrial applications. Thanks to the high resolution and the miniature size, the EH036 encoder is **ideally suited for small motors** and especially highly dynamic servomotors including product handling equipment, pick & place robots, electronic assembly systems, printing and measuring machines, electro-medical and laboratory instruments, geared limit switches in wind turbines. It is also perfect for installation in advanced industrial automation applications that require accurate real-time motion control, especially in tight and confined spaces where the footprint is a primary concern.