

AMM33 Modular Encoder Integrates Energy Harvesting Technology

- *Batteryless multiturn tracking with Energy Harvesting technology*
- *No gears no wear no battery concerns*
- *Outer diameter 33 mm / 1.3", blind hollow shaft 6 or 8 mm / 0.236" or 0.315"*
- *Up to 18 bit singleturn and 16 bit true multiturn absolute positioning*
- *SSI, BiSS, and SPI interfaces*

AMM33 multiturn modular magnetic encoder from Lika Electronic uses **Energy Harvesting Technology** to produce electricity and power the multiturn counter.

The advantage?

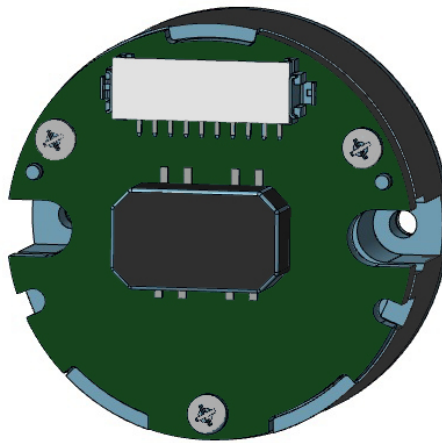
The battery and multiturn mechanical gears that equips the standard multiturn counters can be eliminated.

Energy Harvesting Technology uses variations in the magnetic field to generate electricity.

This pulse of electricity is sufficient to power the multiturn tracking circuitry and write the turns count to non-volatile memory.

Batteryless multiturn design gives several advantages over the common geared multiturn versions: the elimination of the gears in fact provides more compactness, reduces the issues related to wear and increases the accuracy of the measuring system at the same time.

It's the perfect solution for **servomotor feedback applications**.



AMM33 is frameless and has a very compact, light-weight and bearingless design. It can be integrated comfortably also in constricted spaces. The outer diameter is 33 mm / 1.3" and the blind hollow shaft can be 6 mm or 8 mm / 0.236" or 0.315".

The magnetic operation without moving parts and contacts limits the risk of failures due to wear, vibration, shocks, and mechanical stresses.

AMM33 is absolute and multiturn and can be equipped with the following absolute interfaces:

- SSI serial interface;
- BiSS serial interface;
- SPI serial interface.

The singleturn resolution is up to 18 bits (262,144 cpr), the number of revolution is 65,536 (16 bits).

AMM33 is ideally suited for direct integration into servomotors and motors in general, but it is the perfect choice also **for robotics**, as well as for many weight-sensitive and confined space applications.