EHCT59: THE NEW THROUGH-HOLLOW-SHAFT ABSOLUTE ENCODER

The new **EHCT59 absolute encoder** is marked by its **through hollow shaft** and the integration of the EHG (Energy Harvesting Generator) technology platform.
It offers a high single-turn resolution of up to 25 bits using optical sensing (total resolution can reach up to 32 bits) and the SSI and BiSS interfaces.
In specific versions, it also provides square wave or sine/cosine signals.

- Through-hollow-shaft encoder
- Single-turn and multi-turn absolute versions with SSI and BiSS interfaces
- Precise optical sensing technology
- Multiturn versions featuring the EHG (Energy Harvesting Generator) technology platform
- Up to 25-bit single-turn resolution and up to 32-bit total resolution

The EHCT59 absolute encoder is mainly distinguished by its 14 mm and 15 mm through hollow shaft, which can be reduced down to 6 mm by installing BR1 reducing sleeves as needed.
It is built in a standard 58 mm flange diameter housing and equipped with the high-accuracy optical sensing technology and the SSI and BiSS interfaces.
It is suitable for typical industrial environments due to its IP65 protection rating and an **extended operating temperature range from -40°C to +100°C (-40°F to +212°F)**.

Multi-turn versions integrate the **EHG Energy Harvesting Generator technology platform**.
The advantage is that the multi-turn counter is battery-free and gearless, making the encoder lighter and more compact, and reducing the risk of mechanical failures.
The absolute position is provided via the SSI and BiSS C-mode interfaces through cable and connector connections.
Some SSI versions can also output 1,024 PPR AB incremental signals using Push-Pull or Line Driver circuits, or 1,024 sine/cosine 1Vpp signals.
An additional advantage is the Universal power supply circuit, which allows the input voltage range to be extended from +5Vdc to +30Vdc.
The single-turn resolution can be up to 25 bits, while the total resolution can reach up to 32 bits.