

EHM58 & EH058 ABSOLUTE ENCODERS WITH EHG ENERGY HARVESTING GENERATOR

The **EHM58 and EH058** are the **latest series of absolute encoders** from Lika Electronic, featuring either magnetic or optical scanning technology and the SSI and BiSS interfaces. They will gradually replace the current series ES58, EM58, HS58, and HM58.

They are built with a standard 58-mm flange diameter housing and are available with either solid or blind hollow shafts. Designed to operate in typical industrial environments, they offer a high protection rating of IP67. Additionally, the range of the operating temperature is extended from -40°C to +100°C (-40°F to +212°F) accommodating a wide variety of industrial applications. The EHM58 and EH058 encoders incorporate the **EHG Energy Harvesting Generator technology platform**. This technology offers several advantages: the multiturn

counter is battery-free and gearless, the encoder can be lighter and more compact, and the risk of mechanical failures is significantly reduced.

The **EHM58 encoder employs magnetic sensing technology**, achieving up to 18 bit singleturn resolution (262,144 counts per revolution) and up to 16 bit multiturn resolution (65,536 revolutions). The **EH058 encoder utilizes an optical measuring method and reaches up to 24 bit singleturn resolution (16,777,216 counts per revolution) and up to 16 bit multiturn resolution (65,536 revolutions)**.

The absolute position is provided via the SSI and BiSS C-mode interfaces through cable and connector connections. The SSI optical versions can also output 1,024 PPR AB incremental signals using the Push-Pull or Line Driver circuits.

An additional advantage is the Universal power supply circuit which enables the range of the input voltage from +5Vdc to +30Vdc.

The EHM58 and EH058 encoders are **highly versatile and multifunctional**, striking a careful balance between providing robust protection and ensuring accurate, safe signal transmission in industrial environments. They are ideally suited for advanced industrial automation applications, including packaging machinery, the food and beverage industry, metal and plastic working machinery, woodworking machinery, stone and marble processing machines, production and processing lines for paper and board, textile machinery, conveyor systems, and handling systems, etc.

