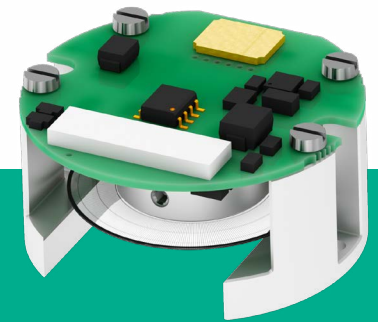# AMM36: small size with high resolution and accuracy

*AMM36 is a **frameless optical encoder** and combines high resolution and precision with compact dimensions. It is the smallest kit encoder in the range of Lika. It is perfect, for instance, for integration into motors, industrial robotic systems, surgical robots and aerospace equipment.*

- *Kit encoder with precise optical sensing*
- *Mono and multiturn versions, resolution up to 38 bits*
- *SSI, BiSS and RS-485 interfaces*
- *Additional Sine/Cosine track*

AMM36 is a **frameless optical encoder** and combines high resolution and precision with compact size and minimum weight. It is the smallest kit encoder in the range of Lika Electronic and is ideal, for instance, **for integration into motors, industrial robotic systems, surgical robots and aerospace equipment.**
It has a diameter of 35 mm / 1.378" and a thickness of 18 mm / 0.708"; the weight is reduced to a few dozens of grams. It can be installed on 6-mm / 0.236" diameter shafts and does not need any calibration procedure.

AMM36 is available in both single-turn and multiturn versions. It offers a singleturn **resolution up to 22 bits (4,194,304 cpr) and up to 65,536 revolutions** and provides the position information via SSI, BiSS C-mode and RS-485 interfaces. It also produces additional Sine/Cosine signals (256 sinusoidal signals per revolution) for speed feedback.
Thanks to its small footprint, the frameless design and the high level of customization, AMM36 kit encoder is ideally suited for direct integration into a variety of industrial automation

systems, in particular when the finest accuracy granted by optical electronics is required, such as **AC servomotors and DC brushless motors, industrial robots, robotic joints, pick & place applications and manipulators, drones/UAV, surgical and diagnostic robots, biomedical and prosthetic systems, electro-medical and laboratory instruments**.
It is also available in special versions, for example for high temperatures or aerospace applications and can be tailored to meet specific industrial requirements.

AMM36 technical specifications