

The compact revolution. Kübler presents the first optical multiturn encoder without gears and with 100 percent magnetic insensitivity

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Kübler introduces a little technological revolution. Technology companies do this quite frequently, however in this case the term is fitting. A new encoder technology, developed with the new Kübler Sendix F36 series, aims to spur on applications in the future; whilst getting rid of technological disadvantages such as wear and ageing or magnetic sensitivity. All the advantages on one chip – this is the motto.

In the new patented, optimised design there is room enough only for the essentials. Even functional ‘accessory parts’, such as the battery – traditionally accommodated within the housing - had to give way, in order to afford extra space for the impressive Sendix-style bearing assembly. This bearing assembly alone - guarantor for extreme ruggedness and long service life - takes up two-thirds of the overall depth of the compact encoder. Thanks to the non-contact optical technology in the F36 series, no other product of this size is going to be able to quickly match this encoder when it comes to service life. This is because, for the first time, the proven Sendix ruggedness can now find sufficient space in such compact dimensions. It is probably also a record that an 8 millimetre hollow-shaft or a 10 millimetre blind-hollow shaft can be offered within the overall size of just 36 millimetres.

There is no doubt that the product philosophy of concentrating on the essentials, which forms the basis of this new technology, makes a crucial contribution to the insensitivity and the reliability of the devices. This includes the considerable reduction in the number of component parts compared with conventional encoders. This means, in a nutshell: giving up the gears in order to benefit service life and also doing without a battery, so as to offer exceptionally compact dimensions. Compact dimensions, by the way, where the tangential cable outlet provides the icing on the cake.

A state-of-the-art OptoASIC lies at the heart of the new F36 Sendix series; here the information threads come together; here lies the intelligence for singleturn and multiturn functions.

With a total resolution of up to 41 bits, which results from the combination of a requirement-based programmable multiturn encoder with up to 16 million revolutions and a high-precision singleturn with up to 17 bits resolution, the new F36 encoders feature a particular wide choice of options, which opens up numerous areas of application to them. The Kübler Sendix F36 series thus provides the ideal basis on which to build customer-specific solutions in demanding applications. Wherever drives need to be especially compact and economical, or in sectors that demand particularly flat solutions, such as drive engineering or medical technology, then the advantages offered by the large 8 mm hollow shaft or the 10 mm blind hollow shaft become evident. It is now rare to hear arguments in favour of using potentiometers: the new Sendix F36 generation of encoders must surely now make them a thing of the past.

The core business of Kübler GmbH is the development, manufacture and marketing of leading-edge position and motion sensors, innovative display and counting technology as well as connection and transmission technology.

Founded in the year 1960, the family business is now led by the next generation of the family, Gebhard and Lothar Kübler. It is active worldwide with the export share of its turnover exceeding 60 percent. 6 subsidiaries and 50 exclusive representatives offer product know-how, service and advice globally on-site.

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