

## Sendix Singleturn and Multiturn encoders with PROFINET interface

New Profinet singleturn and multiturn encoders in the robust Sendix design now complement the multi-faceted Absolut family from Kübler.

The entire encoder profile pursuant to "Profile Encoder Version 4.1" and "Identification & Maintenance functionality in Version 1.16" (IM blocks 0, 1, 2, 3 and 4) has been implemented in the devices.

The encoders support the isochronous real-time mode, also called IRT mode, and are thus ideal for real-time applications. Through the decoupling of the real-time communication from the standard communication (TCP/IP), the IRT mode also offers a real-time solution for all high-performance applications such as synchronous applications.



The short cycle time of  $\leq 1\text{ms}$  facilitates flexible and versatile use. The possibility of simply enhancing the features of the encoder with firmware updates without dismantling the encoder also needs to be emphasized.

Scalings, pre-set values and many other additional parameters can be programmed via the Profinet bus.

Position, speed, temperature values and other statuses of the encoder can be transmitted as output values.

All parameters can be programmed via the bus for prompt and error-free start-up. The bus cover is equipped with 3 x M12 plugs for prompt, uncomplicated and error-free connection.

With single-turn devices, the resolution is up to 16 bit and with multi-turn devices up to 28-bit overall resolution.

The "Safety-Lock<sup>TM</sup>" bearing structure enables the Sendix Profinet single-turn and multi-turn encoders to guarantee maximum safety. The locked, larger bearing with large spacing ensures stability during vibrations and gives the device a robustness that even withstands installation errors. Machine downtimes and repairs are thus avoided. Thanks to the highly integrative Opto-ASIC technology from Kübler, the electronics and optical sensor technology are reduced to a few components in favor of higher reliability. The stable pressure-cast housing with a protection class up to IP67 and the broad temperature range of  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$  also facilitates use outdoors.

Visual warning and alarm signals indicate sensor errors, too low a voltage or too high a temperature. Troubleshooting thus becomes substantially easier; the necessary measures for correction can be implemented without delay and lengthy downtimes avoided.

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