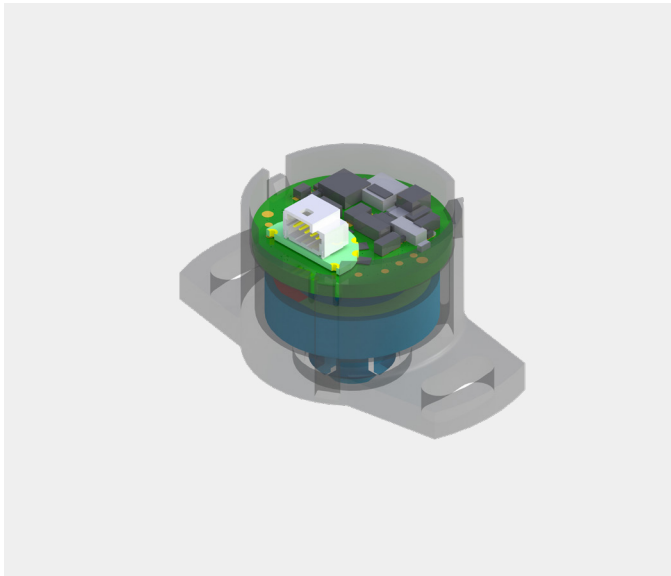


Project Items
with a Minimum Order Quantity



Special Features



- Non-contacting, magnetic
- Measuring range 15840° (44 turns)
- True-Power-On system: counts turns and detects the position even when not powered. Patented non-volatile GMR technology does not require gears or batteries
- Interfaces: SENT, SPI, IO-Link, CANopen, CAN SAE J1939, 5 V ratiometric
- Resolution up to 16 bits per revolution
- Frontend: safety enabling device (ASIL-B)
- Kit solution for tailored design, flexible mounting and connections options

Possible Applications

- Wire transducers
- Seat adjustment
- Valves and actuators
- Agricultural machines (steering, cutter adjustment, ...)
- Industrial trucks (steering, fork position,...)
- Construction machinery
- Robotics

The **Multi-turn Kit Sensor MK2** is a prototype platform for evaluating a cost-effective and customizable multi-turn sensing solution for your application.

The concept enables application-specific integration, allowing mechanical interfaces such as shaft coupling, mounting, and electrical connections to be individually adapted to the requirements of your application.

The prototype facilitates fast, hands-on validation of the technology directly within your application, supporting the assessment of its integration and performance potential.

For serial production applications, the design of the kit sensor can be modified according to your requirements: Our sales team will be happy to support you with their expertise.



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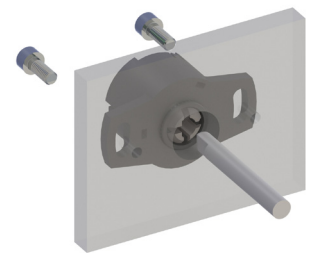
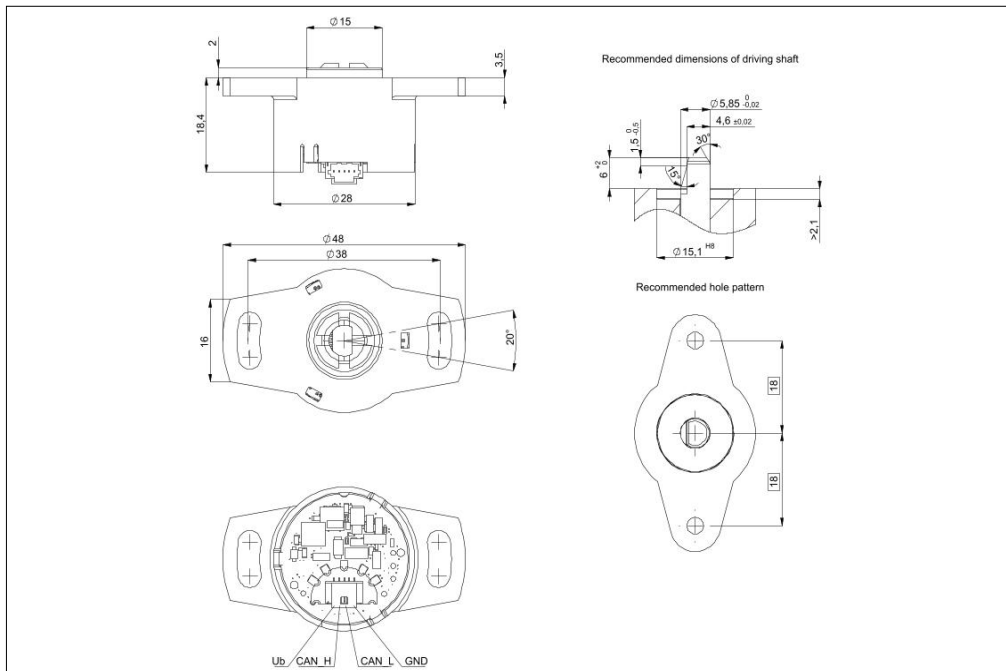
Features of the current prototype

- Mechanical coupling via plug-in hollow shaft: The customer's D-shaft is inserted into the actuator of the sensor
- CANopen interface (Ub 8 ... 32 VDC, [Interface Description](#), [EDS](#))
- Molex connector including mating connector with flying leads
- Magnetic shielding must be implemented within the application, as external magnetic fields may influence sensor performance
- Open system, IP protection rating depends on the integration within your application

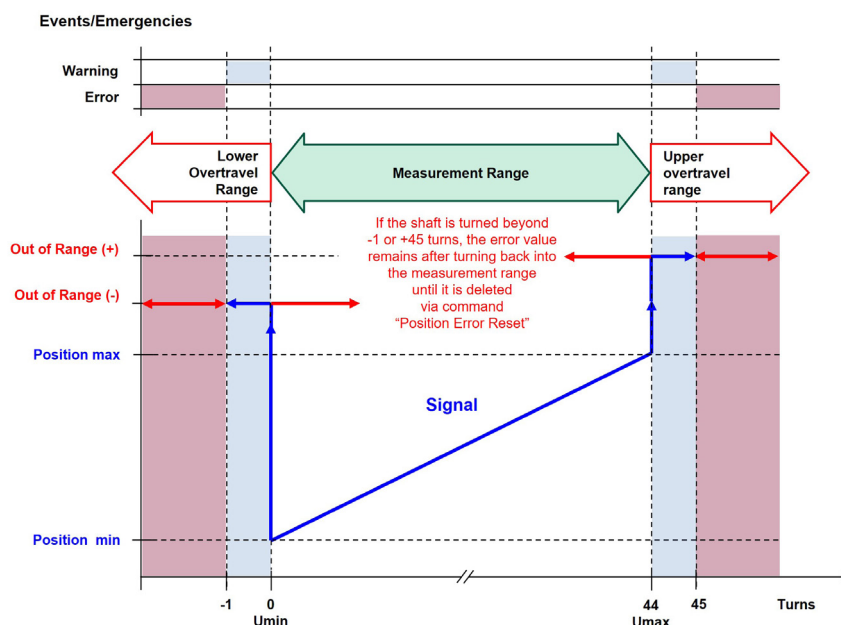


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Subject to change.



Measurement Range



Important

In normal operation, the sensor should not be overturned exceeding its operational range of 44 turns to avoid a shifting of the output curve under any circumstance. **This also applies if the sensor is not powered.**

If overtravelling < -1 turn or > 45 turns, the sensor outputs an additional error message. It must be deleted after reversing into the measurement range using the "Position error reset" or power off/on. To return into the measurement range, the sensor shaft has to be turned back at least 3 turns in the opposite direction.

The position signal after turning back might NOT correspond to the position signal before leaving the measurement range of 44 turns, since the sensor will output a new, shifted output curve, after having been overturned more than 1 turn.

The specifications contained in our datasheets are intended solely for informational purposes. The documented specification values are based on ideal operational and environmental conditions and can vary significantly depending on the actual customer application. Using our products at or close to one or more of the specified performance ranges can lead to limitations regarding other performance parameters. It is therefore necessary that the end user verifies relevant performance parameters in the intended application. We reserve the right to change product specifications without notice.