

Large hollow shaft encoder with IO-Link interface

C_H802 for the slim local bus

The consistently modular product structure of the current generation of encoders from TR-Electronic makes it possible:

Now large hollow shaft encoders for shafts up to 25 mm in diameter can also be easily integrated into modern networks. Especially if an existing sensor-actuator network with IO-Link is already configured for a machine or system, even a complex sensor like a multiturn rotary encoder can be integrated into the control with low connection costs.

If a machine or system has already integrated IO-Link as a bus system, it makes sense to also control absolute rotary encoders with this bus system. The actual value communication is compatible with normal, digital initiator communication between the rotary encoder and the next distribution node in a star distribution. The encoder can collect a lot of information and usually transmits it via powerful Industrial Ethernet to the higher-level controller. Position and speed are provided for the process. With operating hours counter and device status, the absolute rotary encoder also provides data for preventive machine maintenance.

With the mounting for hollow shafts up to 25 mm in diameter, the C_H802 absolute rotary encoders also fit on powerful drive axes – without additional couplings or a second shaft end. The rotary encoder is supported by the drive shaft: The rotary encoder also performs movements due to eccentricity of the drive shaft – but the encoder bearings only carry the encoder's own weight. A pin/groove connection secures it against rotation. TR rotary encoders also control the simple digital contact of IO-Link. A speed warning can thus be easily produced: The digital output is set for a speed configurable via software. Other process data in the rotary encoder can also be selected for evaluation.

And if IO-Link is no longer sufficient in terms of performance, TR Electronic's C_H802 rotary encoders are also available with PROFINET, EtherCAT and Ethernet/IP – each with exactly the same shaft design. This means that the use of a rotary encoder from TR-Electronic with a specific interface is not a design dead-end. New machine with a different bus system – the design can be adopted.

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C_H80 Absolute rotary multiturn encoder for direct integration into IO-Link networks.