

### **Small multi-turn, single-turn and incremental rotary encoders (36 mm) with great features**

A new design size is taking the market by storm: with a diameter of 36 mm, advanced encoder technology is moving in where there is no room for typical industrial design sizes. And there is absolutely no need for the 36-mm series of encoders from TR to hide behind the bigger design sizes. The series is made up of incremental, single and real multi-turn rotary encoders, some with single-scan, some with double-scan functionality, and implemented according to the redundancy concept from the gears to the scan, power supply and interface. You can rely on the tried and tested multi-turn gear technology, which has proven to be extremely durable; each revolution is accurately registered, even when not under voltage, and is not influenced by electromagnetic interference. The rotary encoders communicate with the control unit via incremental signals (A, B, 0 and inverse), SSI, double SSI, SSI + incremental, and soon communication via DRIVECLiQ or CAN will be supported.

#### **Separate bearing:**

No rotating mechanical connection. Contact-free scanning, no wear and tear. Encapsulated electronics up to IP69k rating. Available as single-turn and incremental rotary encoder.

#### **Integrated solid shaft:**

Tried and tested double bearing. Encoder is driven by shaft. Installed via flange with clamps or front-side screws.

#### **Extremely tight:**

Up to IP69k rating with integrated and separate bearing, as single-turn and incremental rotary encoder. Optionally available with housing made completely of stainless steel.

#### **Real multi-turn:**

Integrated compact gears with up to 4096 revolutions, optionally up

to 16 million! No numerators, no battery buffering, robust against electromagnetic interference. Reliably registers every movement even without power supply.

**Double rotary encoder:**

Complete two-channel installation. As single-turn with 2 x SSU, 4096 steps/revolution. As multi-turn with redundant compact gears and 2x SSI, 4096 steps/revolution and 4096 revolutions.

**Interfaces:**

Incremental rotary encoder: K1, K2, K0 and negating  
Absolute single and multi: SSI, 2x SSI, SSI + incremental,  
DRIVECLiQ and CAN (also with customer-specific protocols) are  
being prepared

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## Graphics and images



CMV36.jpg

Compact series of encoders with 36-mm diameter ranging from incremental to double-multi-turn rotary encoders.