

## Rotary encoder certified for FSoE

TR Electronic completes development of encoders with FailSafe over EtherCAT.

With the 75 mm safety encoder, TR Electronic was the first manufacturer to offer the safe version of the innovative EtherCAT bus system for absolute encoders for SIL3 applications. Now that certification has been successfully completed by the ETG in cooperation with TÜV Süd, FailSafe over EtherCAT is also available in the latest CD\_582 encoder series with a nominal diameter of 58 mm. The implementation was a straightforward development process for the medium-sized company in Trossingen, which is experienced in the development and production of safe encoders. The FSoE implementation in the CD\_582 absolute rotary encoder distinguishes itself from other safe interfaces with a number of unusual features. For example, the absolute rotary encoders with FSoE only need 5 seconds from applying the supply voltage until the first secured position telegram is available via EtherCAT. Controllers with FSoE are available from various manufacturers, giving users access to a broad, reliable basis of available automation platforms. The CD\_582+FS ECT has been successfully tested directly on many of these controllers.

Like all SIL encoders, the FSoE encoders from TR Electronic are ideally equipped for the new Machinery Directive. Type examination reports are available and the necessary steps for cyber security have been taken so that cyber security certification can be completed once a harmonized standard is available.



Functionally safe encoders with FailSafe via EtherCAT (FSOE) from TR Electronic, newly certified by the ETG and TÜV Süd.

Technical data on functionally safe encoders with EtherCAT/FSOE from TR Electronic: <https://www.tr-electronic.com/s/S025835>