

## International explosion protection

### IECEx certificate for sensors made by TR-Electronic

For many years, TR-Electronic has been converting the experience it has gathered in digital angle and displacement measurement into products that are in line with the market. TR has the necessary skills to recognize the requirements of customers and markets and to convert them into suitable operating resources. Especially when the ambient conditions become adverse or even dangerous, customers and users must be able to rely on the equipment they choose to do their job reliably and safely. For this purpose, TR-Electronic has developed a series of rotary encoders for use in Zone 1 (explosive gases) and Zone 21 (explosive dusts) and had them certified.

The explosion-protected equipment from TR-Electronic has now also received an IECEx certificate in accordance with international standards. This makes access to international markets much easier. Especially when machine and system manufacturers in Europe export their products to non-EU markets, internationally certified components facilitate local acceptance. The system operators and installers in the target markets also benefit from having direct access to approved products.

Variants for use in Zone 1/21 are available from the entire range of measuring systems. The simplest measuring systems are incremental encoders, in which, depending on the version, the resolution can be set later using programming lines. There are also absolute rotary encoders with various interfaces up to safety-related rotary encoders that combine explosion protection with a SIL3 / PLe-certified, secure position determination - a combination of safety measures that can probably only be found on the market for high-quality, absolute position detection at TR-Electronic is.

TR Products IECEx <https://www.tr-electronic.de/produkte/atex>

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Protective enclosure solutions by TR with IECEx certificate for rotary encoders, available with Industrial Ethernet, Fieldbuses and SIL applications.

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