



**GREENBANK**  
MACHINERY & PLANT LTD

### **Incremental optical encoder TK25**

Features: TK25 - an economic incremental optical encoder suitable for different industrial applications, thanks to its versatility, compact design and high protection degree. - compact and economic encoder for various applications; - wide range of flanges; - resolution up to 2.000 ppr; others on demand; - protection degree up to IP66; - cable and connector outputs. Resolution/Power supply/Output frequency/Synchronous index output/Supply current without load/ Protection/ 2.000 ppr; others on demand/ 5 V; 24/5 V; 11÷30 V up to 50 kHz/ on A default, B- A+B optional/100 mA max short circuit protection, no limit duration (only output LD2 and PP2); against inversion of polarity (except 5V

#### **ALTERNATIVE ENERGY**

A high reliability and accuracy of reading is also required in the field of renewable energy (photovoltaic, wind) particularly in the development of photovoltaic fields where the solutions developed by **ITALSENSOR** provide programmable absolute encoders with protection degree IP67, manufactured with materials treated to resist on an ongoing exposure of the elements (rain, sun, UV radiation), currently thousands of devices are employed for the control of solar tracking systems (biaxial and uniaxial tracker) allowing an accurate orientation of the photovoltaic modules based on the position of the Sun maximizing in this way the final yield and the reliability of the entire photovoltaic plant.

#### **MEDICAL**

**MRI mobile bed scanner (magnetic resonance)** It is possible to customize the size of the encoder to adapt it for each application, from the smallest size commonly used in automation industry

#### **MILITARY**

Italsensor has fundamental components in some of the most advanced defense systems.

#### **PACKAGING INDUSTRY**

An important factor for systems that must run on a continuous 7 days a week 24 hours a day every day of the year. Currently Italsensor transducers have lifetimes of over 10 years, contributing to reduce the time associated with downtime.

#### **FOOD INDUSTRY**

Italsensor is able to produce transducers in accordance with current regulations and in particular can customize in a relatively short time very specific solutions for the final customer.

#### **WOODWORKING**

The models of encoders used may be of the incremental type for controlling the drive speed of the laminae or the absolute type for the realization of cuts and machining on the rough wooden planks. Contact us for more information and support in defining customized solutions for your needs.

In order to facilitate the installation and instrumentation in the measurement axes Italsensor encoders can be equipped with wheels metrics sizes and different materials according to the type of material on which the measurement must be carried. The use of the metric wheel allows to detect in a continuous and precise position or the scrolling speed of the raw material directly in the point of interest.

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