# TUBE TYPE SENSOR INCREMENTAL



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# MEASURE SPEED IN TOUGH EMBEDDED APPLICATIONS

## **HIGH RESOLUTION**

- Smooth control
- Even at low speed

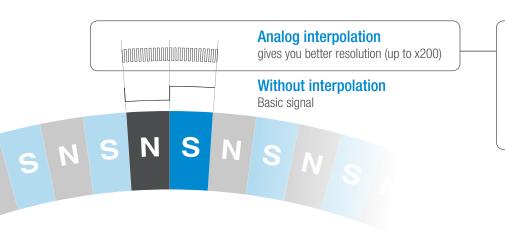
## **COMPACT & MODULAR**

- Easy integration
- Easy maintenance

## ROBUST

- Heavy and harsh environments
- Designed for mobile machinery

# INTERPOLATION HOW DOES IT WORK?



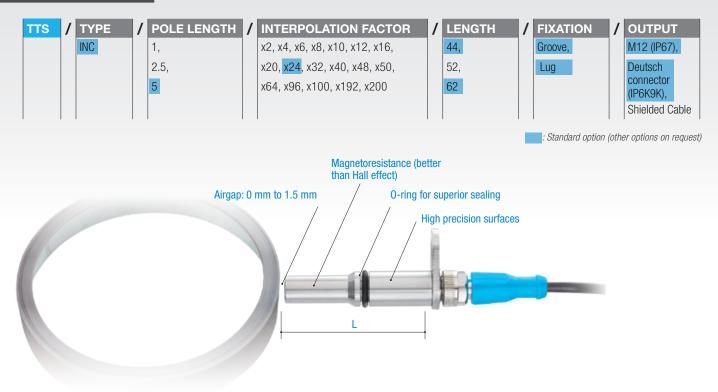
## **High resolution:**

Sensor resolution = **f** x Magnetic resolution **Interpolation factor options:** 

**f:** x8, x12, x24, x32, x40, x48... up to x200



# CONFIGURATION



## **SPECIFICATION**

#### **ENVIRONMENT**

- Operating temperature: -40°C to 105°C
- Nominal hydraulic pressure: 100 bar
- Vibration: 0.1 g<sup>2</sup>/Hz [10 Hz to 1000 Hz] 8 hrs / axis (IEC60068-2-64: category 1 for wheel vehicle)
- Ingress protection: IP6K9K

## PERFORMANCES

- Magnetic ring : 10 mm magnetic period (5 mm pole length ; other upon request)
- Frequency: 50kHz max
- Power supply : 8V to 32V
- Signal output: 2 push-pull square wave signals

## **ELECTRICAL PROTECTION**

- · High instantaneous overvoltage
- Reverse polarity
- Protected against short circuits to Vbat and ground

## ELECTROMAGNETIC COMPATIBILITIES

- Radiated emission: Class B 100 V/m [20 MHz to 2 GHz] (IS011452-2, IS011452-3)
- Electrostatic Discharges : Class A ±8kV contact, ±15 kV air (housing, pin) (ISO10605)
- Agricultural and forestry machinery : ISO14982:1998
- Construction machinery : EN13309:2000
- Industrial trucks : EN12895:2000

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