MEASURE SPEED
IN TOUGH EMBEDDED APPLICATIONS

HIGH RESOLUTION
- Smooth control
- Even at low speed

ROBUST
- Heavy and harsh environments
- Designed for mobile machinery

COMPACT & MODULAR
- Easy integration
- Easy maintenance

INTERPOLATION
HOW DOES IT WORK?

Analog interpolation gives you better resolution (up to x200)

Without interpolation Basic signal

High resolution:
Sensor resolution = f x Magnetic resolution

Interpolation factor options:
f: x8, x12, x24, x32, x40, x48...
up to x200
ELECTRICAL PROTECTION
• High instantaneous overvoltage
• Reverse polarity
• Protected against short circuits to Vbat and ground

ENVIRONMENT
• Operating temperature: -40°C to 105°C
• Nominal hydraulic pressure: 100 bar
• Vibration: 0.1 g²/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

ELECTROMAGNETIC COMPATIBILITIES
• Radiated emission: Class B 100 V/m [20 MHz to 2 GHz] (ISO11452-2, ISO11452-3)
• 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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Contact us: mechatronics.industry@ntn-snr.fr