

Rotational Speed Sensor TBT1C

The TBT1C speed sensor operates with an external matching permanent magnet and utilizes magneto-resistive sensing to convert rotational speed into an approximate sine wave signal. Designed to work in conjunction with speed monitoring and control systems, it is widely used for speed detection in various rotating equipment and transportation vehicles.

Parameters

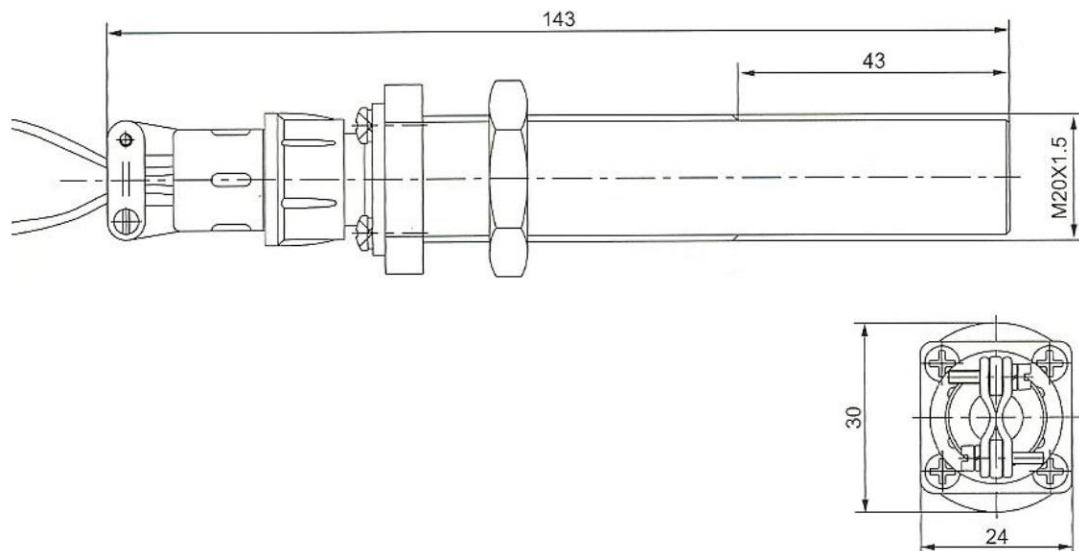
Operating Parameters

- Operating Temperature: $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$
- Measuring Range: 1100~33000rpm
- Output Waveform: Approximate sine wave
- Sensing Gap: 100×100 mm (gear module>2)
- Output Voltage: $V_{P-P} \geq 0.1\text{V}$ (@1000rps, load resistance=10k Ω)
- Target Object: Matching permanent magnet
- Insulation Resistance: $\geq 200\text{M}\Omega$
- Dielectric Strength: 500V/50Hz/1min

PIN Configuration

PIN1 & PIN3 (White)	Output 1
PIN2 & PIN4 (Red)	Output 2

Outline & Interface



- Electrical Connection: X14J4A-X14K4P