

Rotational Speed Sensor TQG2B

The TQG2B speed sensor incorporates a built-in permanent magnet and utilizes the principle of magnetic reluctance induction to convert the rotational speed of a carrier into an approximate sine wave output signal. Designed to work in conjunction with speed measurement and control devices, it is widely used for speed detection in various rotating machinery and transportation vehicles.

Parameters

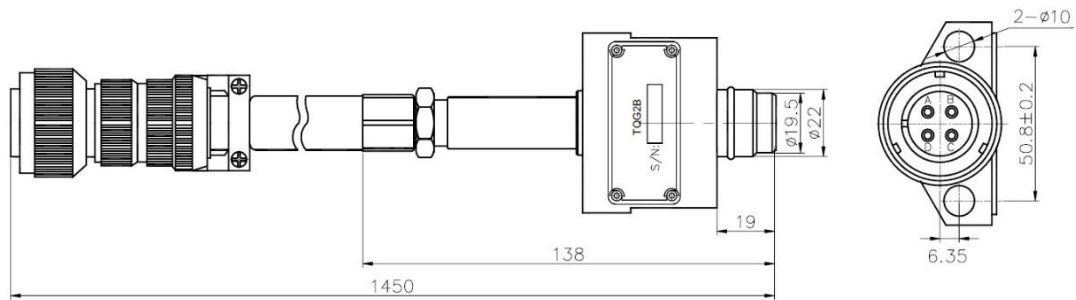
Operating Parameters

- Operating Temperature: $-25^{\circ}\text{C} \sim +100^{\circ}\text{C}$
- Measuring Range: 18~5000rpm
- Output Waveform: Approximate sine wave
- Output Characteristics: @18rpm with a load of $18\text{k}\Omega$, $V_{P-P} \geq 0.4\text{V}$
@2700rpm with a load of $18\text{k}\Omega$, $V_{P-P} < 25\text{V}$
- Target Object: Gear with module $M=2.5$, $Z=60$ teeth
- Installation Air Gap: 0.8~1.2mm (typical 1mm)
- Insulation Resistance: $\geq 100\text{M}\Omega$
- Dielectric Strength: 500V/50Hz/1s

PIN Configuration

PIN A	Output 1
PIN B	Output 2
PIN C	Not Connected
PIN D	Shield

Outline & Interface



- Electrical Connection: JL5-4TJ connector