

Temperature Sensor NCTC3-K1

The NCTC3-K1 utilizes a Type K sheathed thermocouple as the sensing element, offering wide measurement range and high accuracy. It features threaded mounting with a floating sleeve rotary structure, ensuring strong vibration resistance, reliable sealing, and easy installation. This sensor is specially designed for gas temperature detection at the inlet and outlet of various turbine systems.

Parameters

Operating Parameters

Measured medium: Gas

• Temperature range: -40°C~+1000°C

• Accuracy: $\pm 1.1^{\circ}$ C or $\pm 0.4\% \times T$ (whichever is greater)

Output signal: -1.527mV~41.267mV

Connector operating temperature: −40°C~+60°C

• Insulation resistance: ≥100 MΩ@250VDC

Withstand voltage: 1500VDC/1min (leakage current≤5 mA)

700VAC/60Hz/1min (no breakdown)

General Data

• Insertion depth: 35mm

• Material: SUS316dual-layer bent tube

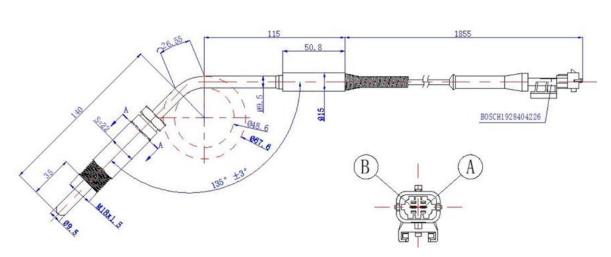
SUS316 conical sleeve & hex nut

H62 brass sealing washer

• Sealing method: Brass washer compression seal



Outline & Interface



• Connector type: BOSCH 1928404226

• Mounting thread: M18×1.5

• Socket definition:

Connector:	Socket A	Socket B

Output: Signal+ Signal-

Notes

- This sensor uses a standard M18×1.5 thread for installation, with rear connector BOSCH 1928404226.
- Use a regular hex wrench (22 mm across flats) for installation. Recommended tightening torque should not exceed 180 N·m.
- After installation, ensure the sensor probe is flush with the flow channel of the measured gas to maintain temperature accuracy.
- Do not use this sensor with strongly corrosive media.
- Avoid suspending or hanging signal wires; ensure they are securely fixed along their length to prevent damage or signal loss.