

Temperature sensor TS-1 ^{GB}

Operating Instructions



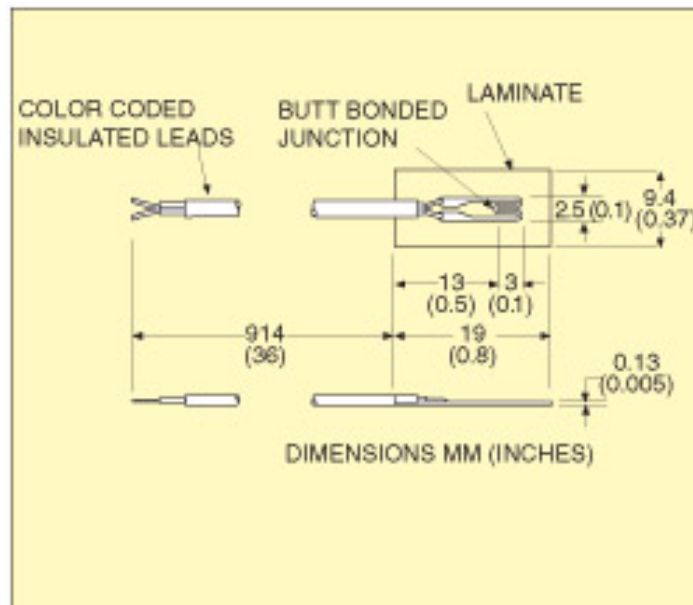
The ROPEX temperature sensor TS-1 is used for measuring temperatures in sealing applications. With the short response time the sensor is suitable for measurements in high dynamic sealing applications.

The sensor is easiest to install. The foil sensor is embedded between two paper thin, glass reinforced high temperature polymer laminates which both support and electrically insulate the foil section as well as provide a flat surface for cementing.

Technical data

Thermocouple type	K-Type
Maximum Temperatures	Continuous: 260°C 10 hours, short duration: 370°C The maximum temperatures depend on the ambient conditions, assembly, requested accuracy and life time. The described values are overview values only.
Response time	10...20ms, when „grounded“ or „cemented“ to surface. (Time which is necessary to reach approximately 60% of the real temperature after a temperature jump occurred)
Accuracy	1,1°C or 0,4% of the measured temperature (higher value is valid) Specification according „class 1“, SLE
Cable type	Glass braid insulated 30 gage thermocouple wire
Pin assignment	Yellow cable: Nickel-Chromium (Chromel), POS (+) Red cable: Nickel-Aluminium (Alumel), NEG (-)
Cable length	1 meter
Assembly / Bonding	Epoxy adhesives can be used when bonding the sensor to a surface. A Cemet high temperature glue shall not be used. This glue damages the isolation pad of the sensor.

Mechanical dimensions



How to order



Temperature sensor TS-1
Art.no. 890000