

# TR 125B – TEMPERATURE SENSORS WITH A CABLE AND METAL CASE

## DESCRIPTION AND APPLICATION

These resistance temperature sensors are designed for contact measurement of the temperature of gaseous, liquid or solid substances. Given the materials used and production technology, these sensors may also be used under very low temperatures. The maximum temperature range of use is  $-190\text{ }^{\circ}\text{C}$  to  $150\text{ }^{\circ}\text{C}$ , where accuracy class B in accordance with EN 60751 is ensured within the range of  $-100\text{ }^{\circ}\text{C}$  to  $150\text{ }^{\circ}\text{C}$ . The sensor case includes fittings allowing the use of sensor for measuring the temperature in pipes, armatures etc. The structure enables faster response to changes in temperature in comparison to sensors with a protective thermowell. The method of use must be chosen with regard to the temperature, chemical and mechanical resistance of the case and lead-in cable.

## ACCESSORIES

- connectors

## DECLARATION, CERTIFICATES, CALIBRATION

Manufacturer provides **EU Declaration of Conformity**.

**Calibration** – The final metrological inspection – comparison with standards or working instruments – is carried out for all the products. Continuity of the standards and working measuring instruments is ensured within the meaning of the Section 5 of Act no.505/1990 on metrology. The manufacturer offers a possibility to supply the sensors calibrated in SENSIT s.r.o.'s laboratory (according to requirements of the EN ISO/IEC 17025 standard) or in an Accredited laboratory.

## SPECIFICATIONS

Sensor type	TR 125B
Measuring range	$-190\text{ }^{\circ}\text{C}$ to $150\text{ }^{\circ}\text{C}$
Type of sensing element	Pt 100, Pt 1000
Ingress protection	IP 67 in accordance with EN 60529
Case material	stainless steel DIN 1.4301
Diameter of case	$5 \pm 0.1\text{ mm}$
Length of case	L 50 to 80 mm (in 10 mm)
Lead-in cable	shielded teflon $4 \times 0.14\text{ mm}^2$

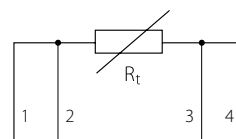
## SENSOR INSTALLATION AND SERVICING

- Installation of the sensor in the measured place.
- Connection of the wires of the lead-in cable according to the wiring diagram. After installing and connecting to the electrical measuring equipment, the sensor is ready for use. The sensor does not require any special servicing or maintenance. The work position is adjustable.



## WIRING DIAGRAM

Four-wire



## DIMENSIONAL DRAFT

