

TEMPERATURE SENSORS

IKEP1BE2000

PT100 sensor, 5x20mm, 2m waterproof cable, max. 105 °C

- PT100 sensors
- J- and K-type sensors
- PTC thermistors



PRODUCT DESCRIPTION

Pt100 sensor's resistance changes with temperature: 100 Ω in 0°C and 138,5 Ω in 100°C. EN 60751 class B tolerances are the following: 0°C $\pm 0,3^{\circ}\text{C}$, 100°C $\pm 0,8^{\circ}\text{C}$ and 200°C $\pm 1,3^{\circ}\text{C}$. Sensor is made of stainless steel, cable shielded (TTS) with maximum temperature of 250°C.

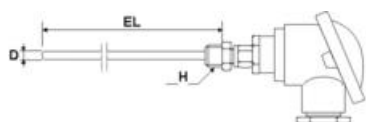
TP10, TP10/3



TP5, TP150-2



TP200



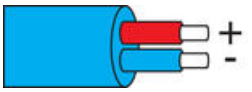
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J-TYPE (FE-KO) THERMO COUPLES

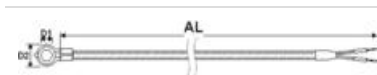
Termoparianturin toiminta perustuu kahta eri metallia olevien termoliitosten mittausliitoksen ja vertailuliitoksen lämpötilaeron aiheuttaman lämpö-smv (mV) muutokseen. J-tyyppin anturin lämpö-smv on suuri ja alle 500°C lämpötiloissa käyttöikä lähes rajoittamaton. IEC 60584-2 class 1 normin mukainen maksimipoikkeama J-tyyppin anturille alueella -40°C...+375°C on $\pm 1,5^{\circ}\text{C}$. Kaapelin ja johtimien värit IEC/CEI mukaan.

Color coding on J-type thermo elements

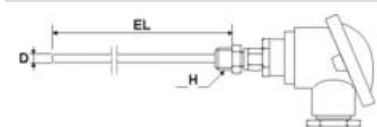
Conductors	BS (UK)	ANSI (USA)	DIN	IEC/CEI
Iron/ Constantan				

TJ10

TJ3-IJ



TJ200



K-TYPE (NICR/NI) THERMO COUPLES

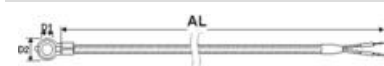
K-type thermo elements is perfectly suitable for high temperatures. Maximum offset $\pm 1,5^{\circ}\text{C}$ in temperatures in temperature range of $-40^{\circ}\text{C} \dots +375^{\circ}\text{C}$ according to IEC 60584-2

Color codings on K-type thermo elements

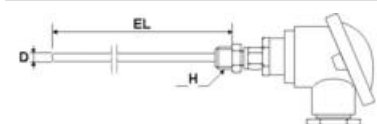
Conductors	BS (UK)	ANSI (USA)	DIN	IEC/CEI
Chromel/ Alumel				

TK10

TK3-IJ and TK15X100-IJ-S/3



TK200



PTC THERMISTOR

Thermistors feature a large resistance temperature coefficient and high resistance along with narrow temperature range. According to KTY 81-121 (990 $\Omega/25^{\circ}\text{C}$) PTC thermistor holds the following standards: $+20^{\circ}\text{C}/951 \Omega (\pm 1,4^{\circ}\text{C})$, $+80^{\circ}\text{C}/1479 \Omega (\pm 2,9^{\circ}\text{C})$, $+150^{\circ}\text{C}/2189 \Omega (\pm 4,9^{\circ}\text{C})$. Suitable for use with TS400-series thermostats.



SPECIFICATIONS

Cable length	2 m
IP Class	IP68
Material Cable	Thermoplastic
Material Probe	Thermoplastic

Max temperature of probe	105 °C
Measuring Range	- 50 °C ...+ 105 °C
Number of conductors	2