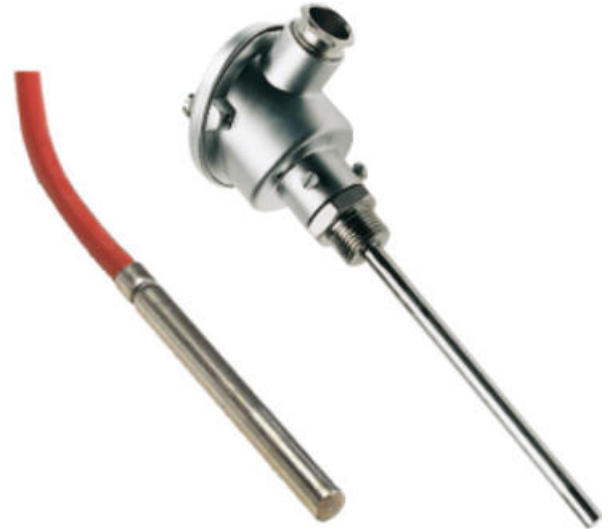


## TEMPERATURE SENSORS

IKEP1BE2000

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

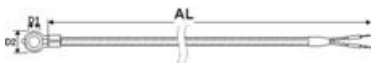
- PT100 sensors
- J- and K-type sensors
- PTC thermistors



### 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 ±0,3°C, 100°C ±0,8°C and 200°C ±1,3°C. Sensor is made of stainless steel, cable shielded (TTS) with maximum temperature of 250°C.

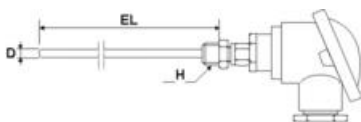
TP10, TP10/3



TP5, TP150-2



TP200



IKEP1BE2000



## 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 ±1,5°C. Kaapelin ja johtimien värit IEC/CEI mukaan.

### Color coding on J-type thermo elements

Conductors

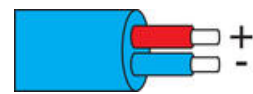
BS (UK)

ANSI (USA)

DIN

IEC/CEI

Iron/  
Constantan

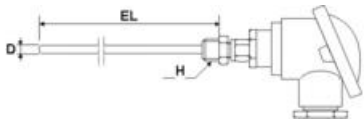


TJ10

TJ3-IJ



TJ200



## K-TYPE (NICR/NI) THERMO COUPLES

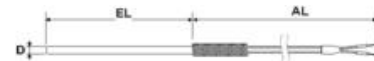
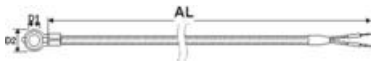
K-type thermo elements is perfectly suitable for high temperatures. Maximum offset  $\pm 1,5^{\circ}\text{C}$  in temperatures in temperature range of  $-40^{\circ}\text{C} \dots +375^{\circ}\text{C}$  according to IEC 60584-2

### Color codings on K-type thermo elements

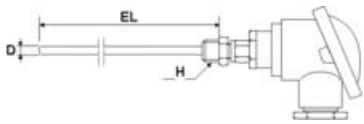
| Conductors         | BS (UK) | ANSI (USA) | DIN | IEC/CEI |
|--------------------|---------|------------|-----|---------|
| Chromel/<br>Alumel |         |            |     |         |

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 |

|                                 |                     |
|---------------------------------|---------------------|
| <b>Max temperature of probe</b> | 105 °C              |
| <b>Measuring Range</b>          | - 50 °C ...+ 105 °C |
| <b>Number of conductors</b>     | 2                   |