

1150°C



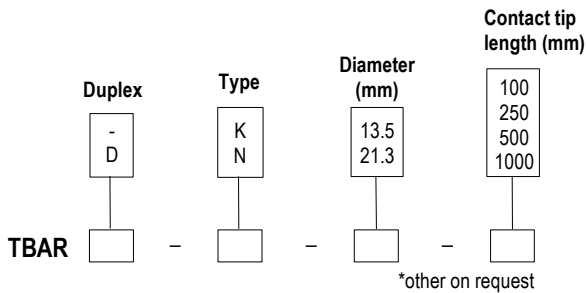
**Thermocouple temperature sensor with heat-resisting steel protector**

**TBAR K / TBARD K**

- Thermocouple K and N.
- Maximal temperature +1150°C

**Part numbers**

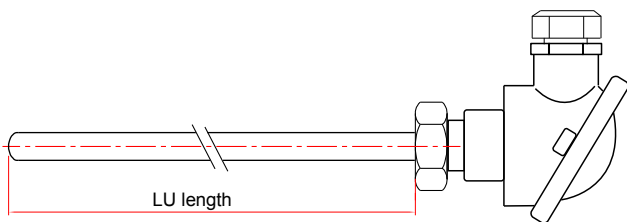
To order, just add the codes to complete the part number.



Example : TBARD-K-213-100

Model : Head thermocouple type K with contact tip of 100 mm length and 21.3 mm Ø. Multi pair mounting of wires.

**Dimensions**



**Technical features**

- Maximal operating temperature.....+1150°C
- Accuracy\* for class 1.....See "Tolerances" table
- Mounting of welding.....Insulated hot welding  
Simple pair or 2x2 wires multi pair mounting .
- Contact tip.....Stainless steel sheath 310 (heat-resisting steel)  
Ø 13,5 x 2,35 mm or 21,3 x 2.65 mm in standard
- Compression fitting.....Stainless steel 316 L
- Electrical connection.....ceramic terminal block 2 or 4 contacts.  
Transmitter as option.
- Connection head.....Aluminium alloy (120°C max)  
Cable gland : M20/150  
IP65 protection .
- Storage temperature.....from -20°C to +80°C

**Tolerances\* of the probe**

As per IEC 584-3 norm

TC	MEASURING RANGE CLASS 1	TOLERANCE
K	From -40°C to +1000°C	From -40°C to +375°C ± 1.5°C From 375°C to 1000°C ± 0.004 x T°abs
N	From -40°C to +1000°C	From -40°C to +375°C ± 1.5°C From 375°C to 1000°C ± 0.004 x T°abs

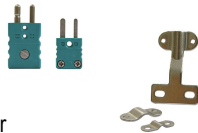
\* Performed in laboratory conditions, the above accuracies mentioned in this document will be guaranteed, provided that you use the calibration compensation data or identical calibration conditions.

## ■ Most common thermocouple types

THERMOCOUPLE TYPE	+ CONDUCTOR	- CONDUCTOR	COLOR OF COMPENSATING CABLE
K	Nickel-Chrome 10%	Nickel-Aluminium 5% -Silicium	Ext. color + = GREEN, - = WHITE
T	Copper	Copper-Nickel	Ext. color + = BROWN, - = WHITE
J	Iron	Copper-Nickel	Ext. color + = BLACK, - = WHITE
N	Nickel 84,4% Chromium 14,2% Silicium 1,4%	Nickel 95,6% Silicium 4,4%	Ext. color + = PINK, - = WHITE
R	Platinum-Rhodium 13%	Platinum	Ext. color + = ORANGE, - = WHITE
S	Platinum-Rhodium 10%	Platinum	Ext. color + = ORANGE, - = WHITE
B	Platinum-Rhodium 30%	Platinum-Rhodium 6%	Ext. color + = GREY, - = WHITE

## ■ Accessories (See data sheet)

- Extension cable
- Compensating cable
- Standard or miniature connector
- Cable seal for plug and socket connector



- Miniature or standard fixed connector
- Miniature or standard connectors panel
- Extension lead
- Converters

