

1150 °C



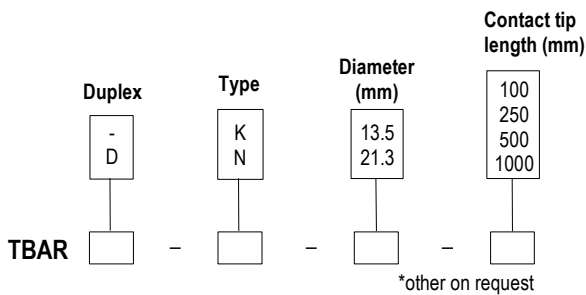
## Thermocouple temperature sensor with heat-resisting steel protector

# 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.

### TECHNICAL FEATURES

Maximal operating temperature	+1150 °C
Accuracy* for class 1	See "Tolerances" table
Mounting of welding	Insulated hot welding Simple pair or 2 x 2 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

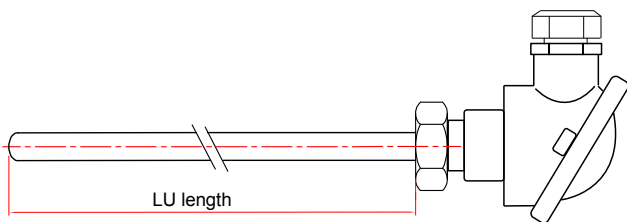
### TOLERANCES\* OF THE PROBE

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.

### DIMENSIONS



## 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 DATASHEET)

- 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



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