

1150 °C



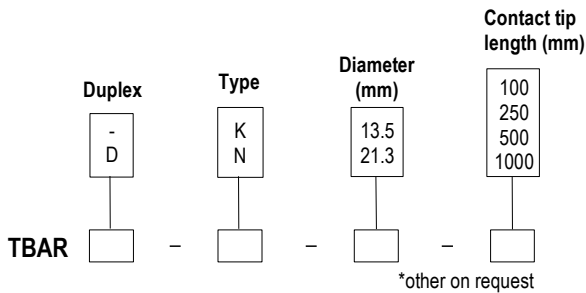
Thermocouple temperature sensor with heat-resisting steel protector

TBAR K / TBARD K

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

PART NUMBERS

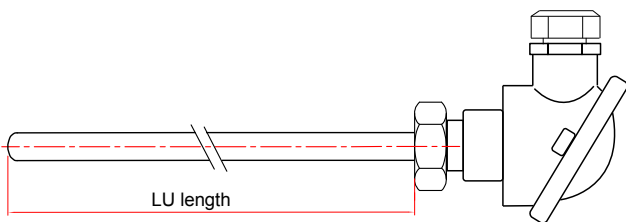
To order, just add the codes to complete the part number.



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 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.

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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