



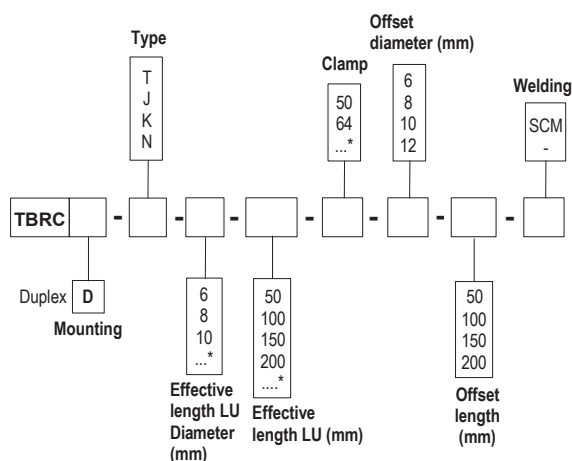
Thermocouple temperature sensor with standard head and clamp fitting

TBRC K / TBRCD K

- Thermocouple types T, J, K and N.
- Measuring range (according to part number) **from -40°C to +400°C**
- Mounting with clamp fitting.

Part numbers

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



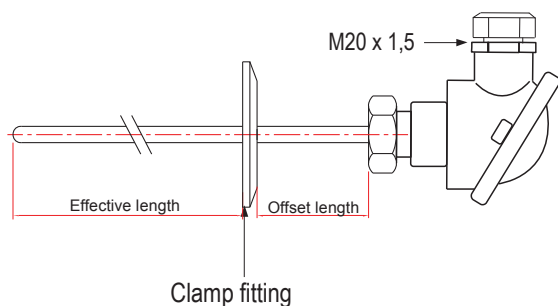
* Other dimension on request

Example : TBRC6-100-50-6-50-SCM.

Model : Thermocouple sensor type K welded to earth. Contact tip effective length of 100 mm and 6 mm Ø with an offset length of 50 mm and 6 mm Ø. Contact tip with clamp fitting of 50,5 mm Ø for a DN ferrule from 25 to 42,4 mm.

Measuring range from -40°C to 400°C.

Dimensions



Technical features

Working temperature.....from -40°C to +350°C for Tc T
from -40°C to +400°C for J, K et N

Accuracy* for class 1.....See "Tolerances" table

Mounting of welding.....Insulated or to earth hot welding
Single pair or 2x2 wires multipair mounting

Storage temperature.....from -20°C to +80°C

Contact tip.....stainless steel 316 L

Clamp fitting.....stainless steel 316 L

- In standard

50 : 50,5 mm Ø cap for DN ferrules from 25 to 42,4mm

64 : 64 mm Ø cap for DN ferrules from 48,3 to 51mm

(Other cap for clamp on request)

- Accessories

Ferrule and collar on request

Electrical connection.....with or without terminal block
Transmitter 4/20mA 0/10V as option

Connection head.....Aluminium alloy
Cable gland : M20 x 1,5
IP65 protection

Adjustable mounting.....See catalogue or data sheet of related mountings

Tolerances* of the probe

As per IEC 584-3 norm

TC	MEASURING RANGE CLASS 11	TOLERANCE
T	From -40°C to +350°C	From -40°C to +125°C ± 0.5°C From 125°C to +350°C ± 0.004 x T° abs
J	From -40°C to +750°C	From -40°C to +375°C ± 1.5°C From 375°C to 750°C ± 0.004 x T° abs
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



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