



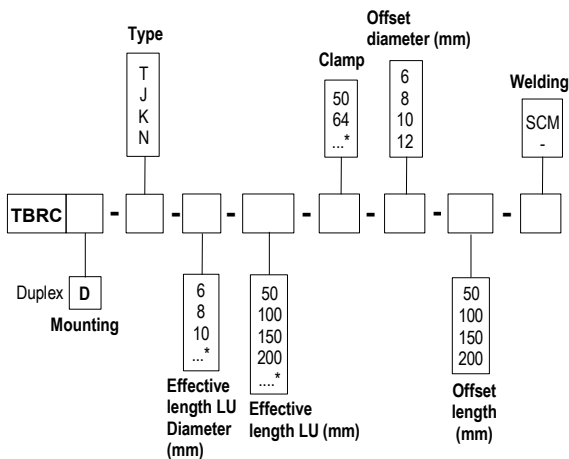
## Thermocouple temperature sensor with standard head and clamp fitting

### TBRC K / TBRC D 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.



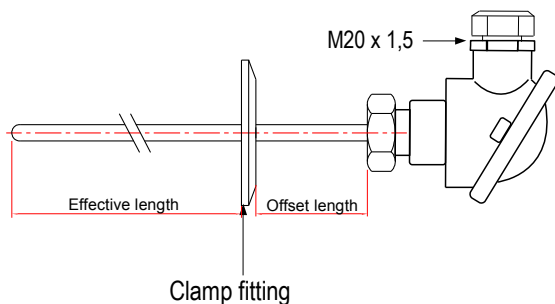
\* Other dimension on request

**Example : TBRC K-6-100-50-6-50-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

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

## ■ 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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