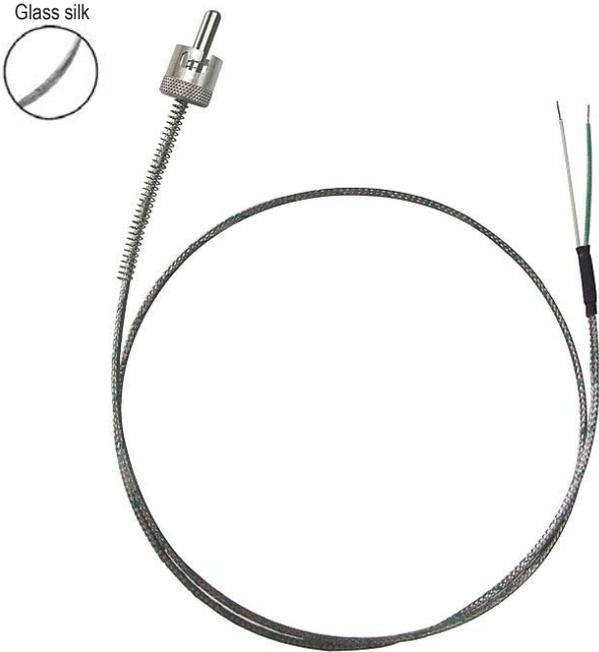


Glass silk



## Cable thermocouple temperature sensor at bayonet

### SFBA K

#### ■ Sensor features

- Thermocouple types T, J, K, N and S.
- Measuring range **from -50°C to +400°C**
- Mounting stainless steel contact tip 316 L

#### ■ Technical features

**Working temperature**.....from -40°C to +350°C for Tc T  
from -40°C to +400°C for Tc J  
from -40°C to +550°C for Tc K

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

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

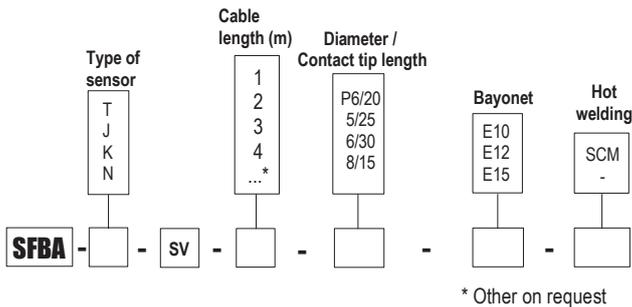
**Contact tip**.....316 L stainless steel.  
5/25 : 5 mm Ø and 25 mm length  
6/30 : 6 mm Ø and 30 mm length  
8/15 : 8 mm Ø and 15 mm length  
P6/20 : 6 mm Ø and 8 mm length

**Cable**.....output by shielded stainless steel glass silk cable.  
2 conductors of 0,22 mm<sup>2</sup>.  
Measuring range : from -50°C to +400°C

**Bayonet**.....bayonet fitting (2 spins)  
Nickel faced brass , for base of 10, 12 or 14 mm Ø  
To screw on spring of 200 mm.

#### ■ Part numbers

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

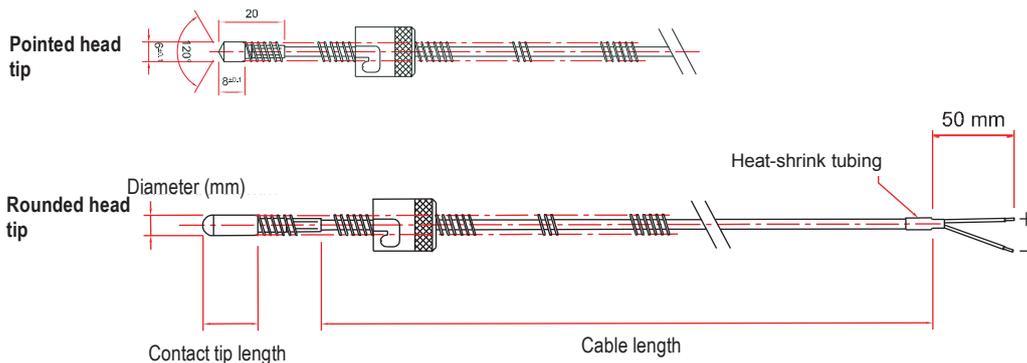


**Example :** SFBAK-SV-3-630-E12-SCM

**Model :** Thermocouple type K temperature sensor at bayonet welded to earth. Contact tip 6mm Ø and 30mm length mounted on glass silk cable 3 m length. Bayonet for 12 mm base.

**Measuring range** from -50 to +400°C.

#### ■ Dimensions



## Tolerances\* of the probe

As per IEC 584-3 norm

| TC | Measuring range<br>Class 1 | TOLERANCE                                                                                                 |
|----|----------------------------|-----------------------------------------------------------------------------------------------------------|
| T  | From -40°C to +350°C       | From -40°C to +125°C $\pm 0.5^\circ\text{C}$<br>From 125°C to +350°C $\pm 0.004 \times T^\circ\text{abs}$ |
| J  | From -40°C to +750°C       | From -40°C to +375°C $\pm 1.5^\circ\text{C}$<br>From 375°C to 750°C $\pm 0.004 \times T^\circ\text{abs}$  |
| K  | From -40°C to +1000°C      | From -40°C to +375°C $\pm 1.5^\circ\text{C}$<br>From 375°C to 1000°C $\pm 0.004 \times T^\circ\text{abs}$ |
| N  | From -40°C to +1000°C      | From -40°C to +375°C $\pm 1.5^\circ\text{C}$<br>From 375°C to 1000°C $\pm 0.004 \times T^\circ\text{abs}$ |

\* 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 TYPES | + CONDUCTOR                                     | - CONDUCTOR                      | COLOR OF COMPENSATING CABLE      |
|--------------------|-------------------------------------------------|----------------------------------|----------------------------------|
| K                  | Nickel-Chrome 10%                               | Nickel-Aluminium 5%<br>-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%<br>Chromium 14,2%<br>Silicium 1,4% | Nickel 95,6%<br>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 connectors panel
- Miniature or standard connectors panel
- Extension lead
- Converters



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