

## Cable thermocouple temperature sensor for surface contact

### SFCS K

#### Probe features

- Thermocouple types T, J, K and N.
- Measuring range from **-40°C to +550°C**
- Mounting with base of surface.

#### Technical features

**Working temperature**.....from -40°C to +105°C for PB output  
 from -40°C to +260°C for TB output  
 from -40°C to +400°C for SVB output  
 from -40°C to +550°C for SVB (Tc K) output

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

**Mounting of welding**.....Insulated hot welding in standard  
 Add SCM to part number for a mounting with hot welding to earth.

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

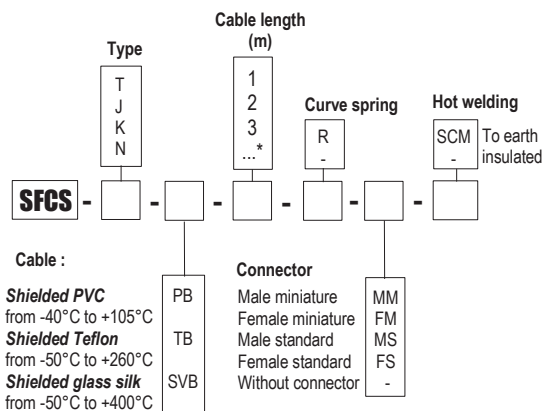
**Output**.....stripped wires, male miniature connector or standard. Other on request.

**Base**.....40 x 16 x 7,5 mm  
 hole of 6,3 mm Ø  
 Copper matter

\* 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.

#### Part numbers

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



\* Other dimension on request

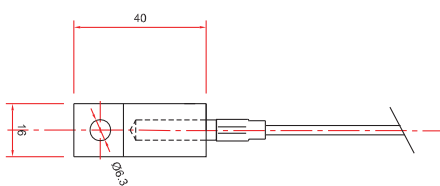
#### Example : SFCSK-P-3-R-MM

**Model** : K type thermocouple temperature probe with insulated hot welding. Contact tip mounted on PVC cable 3m length with a curve spring and with male miniature connector on the end.

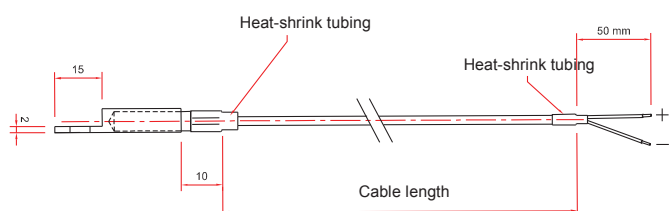
**Measuring range** from -40 to +105°C.

#### Dimensions

Top view



Side view



## Tolerances\* of the probe

As per IEC 584-3 norm

TC	Measuring range Class 1	TOLERANCE
T	From -40°C to +350°C	From -40°C to +125°C $\pm 0.5^\circ\text{C}$ 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 $\pm 1.5^\circ\text{C}$ 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 $\pm 1.5^\circ\text{C}$ 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 $\pm 1.5^\circ\text{C}$ From 375°C to 1000°C $\pm 0.004 \times T^\circ\text{abs}$

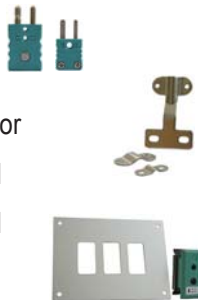
\* Performed in laboratory conditions, the above accuracies mentioned in this document will be guaranteed, provided that you use the calibration compensation data or identical calibration conditions.

## Most common thermocouple types

THERMOCOUPLE TYPES	+ CONDUCTOR	- CONDUCTOR	COLOR OF COMPENSATING CABLE
K	Nickel-Chrome 10%	Nickel-Aluminium 5% -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 connectors panel
- Miniature or standard connectors panel
- Extension lead
- Converters



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