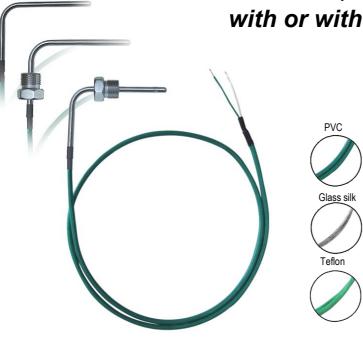


Technical Data Sheet

Pressure / Temperature / Humidity / Air Velocity / Airflow / Sound level

Wire and angled or lined inconel thermocouple temperature sensor with or without fitting



Type SFC K et SFCR K

SFC K - SFCD K - SFCR K - SFCRD K

Sensor features

- Temperature sensor mounted on conductor cables with angled contact tip with or without stainless steel compression
- Thermocouple types T, J, K and N
- Measuring range from -40°C to +1000°C
- Mounting with 316 L stainless steel contact tip or inconel 600

Angled contact tip

L1 mm

L2 mm

Technical features

(According to cable)

Working temperature......For SFCK and SFCRK series

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

For SFCKI and SFCRKI series

from -40°C to +750°C for Tc J

from -40°C to +1000°C for Tc K and Tc N

Recommended temperature......According to contact tip Ø in inconel 600 from Ø 0.5 to 1 mm: until 300°C

from Ø 1.5 to 2 mm : until 750°C Ø 3 mm : until 900°C

from Ø 4.5 to 8 mm : until 1000°C

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

Add SCM to part number for a mounting at hot welding to earth.

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

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

Contact tip and fitting......For SFCK and SFCRK series

316 L stainless steel

Angled at 90° (Other on request)

Waterproof crimping with heat-shrink tubing

(Unless glass silk cable with single crimping on stainless steel sheath)

Curve spring as option

For SFCKI and SFCRKI series

Inconel contact tip 600 T max. 1000°C

Stainless steel compression fitting 316L T max. 800°C

Angled at 90° (Other on request)

Thread of the fitting...... ½' or ½' Gas

Mounting of the fitting.......On L2 length (See schema): 12 or 14 corresponding to ½' G and ¼' G compression fitting

On L1 length (See schema): 12L1 or 14L1 corresponding to 1/2 G et 1/4 G compression fitting



T° maxi of L2 : 800 °C for this specific case

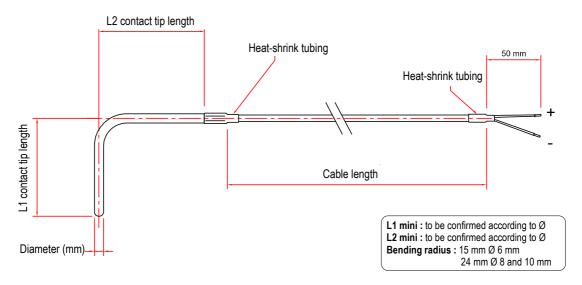
^{*} Performed in laboratory conditions, the above accuracies mentioned in this document will be guaranteed, provided that you use the calibration compensation data or identical calibration conditions

SFC & SFC-I

Angled wire probe or lined inconel

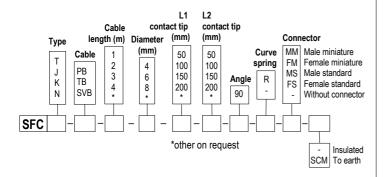


Dimensions



Part numbers

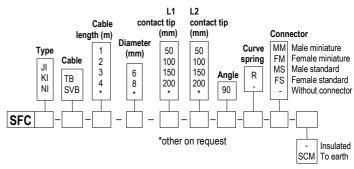
SFC - Stainless steel contact tip -



Example: SFCJ-SVB-4-4-100-100-90-MM-SCM

Model: J thermocouple sensor welded to earth with stainless steel contact tip \emptyset 4 mm angled at 90° and L1 and L2 lengths of 100 mm, without curve spring and mounted on shielded glass silk cable ended by a male miniature connector.

• SFC-I - Inconel contact tip -



Example: SFCJI-SVB-4-6-100-100-90-MM

Model: J thermocouple sensor, insulated welding with lined inconel contact tip of 6 mm \varnothing angled at 90° and L1 and L2 lengths of 100 mm, without curve spring and mounted on shielded glass silk cable ended by a male miniature connector.

SFCR & SFCR-I

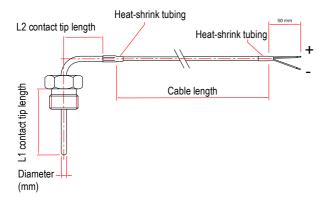
Angled wire probe or lined inconel with fitting



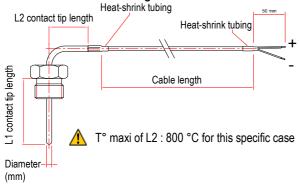


Dimensions

• Stainless steel with fitting on L1

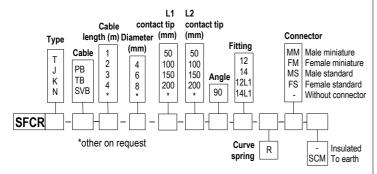


• Lined inconel with fitting on L1



Part numbers

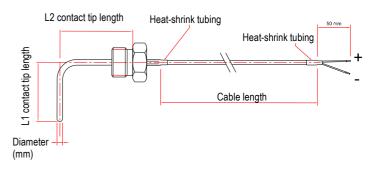
• SFCR - Stainless steel contact tip -



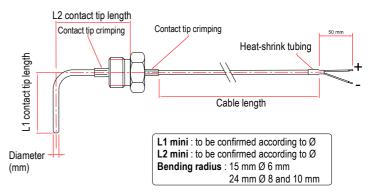
Example: SFCRJ-SVB-4-4-100-100-90-12-MM

Model: J thermocouple sensor, insulated hot welding with stainless steel contact tip \emptyset 4 mm angled at 90° and L1 and L2 lengths of 100 mm, without curve spring with ½'G thread union fixed on L2. Contact tip mounted on shielded glass silk cable ended by a male miniature connector.

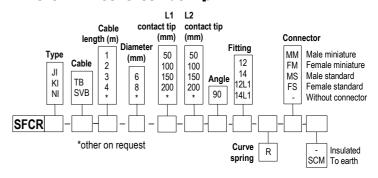
• Stainless steel with fitting on L2



• **Lined inconel** with fitting on L2



• SFCR-I - Inconel contact tip -



Example: SFCRJI-SVB-4-6-100-100-90-12-MM

Model: J thermocouple sensor, insulated hot welding with lined inconel contact tip of 6 mm \emptyset angled at 90° and L1 and L2 lengths of 100 mm, without curve spring with $\frac{1}{2}$ G thread union fixed on L2. Contact tip mounted on shielded glass silk cable ended by a male minipture connector

TC	Measuring range Class 1	TOLERANCE
Т	From -40°C to +350°C	From -40°C to +125°C \pm 0.5°C From 125°C to +350°C \pm 0.004 x T°abs
J	From -40°C to +750°C	From -40°C to +375°C \pm 1.5°C From 375°C to 750°C \pm 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 TYPES	+ CONDUCTOR	- CONDUCTOR	COLOR OF COMPENSATING CABLE
К	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%	Nickel 95,6%	Ext. color + = PINK, - = WHITE
	Chromium 14,2%	Silicium 4,4%	
	Silicium 1,4%		
R	Platinum-Rhodium 13%	Platinum	Ext. color + = ORANGE, - = WHITE
S	Platinum-Rhodium 10%	Platinum	Ext. color + = ORANGE, - = WHITE
В	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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