

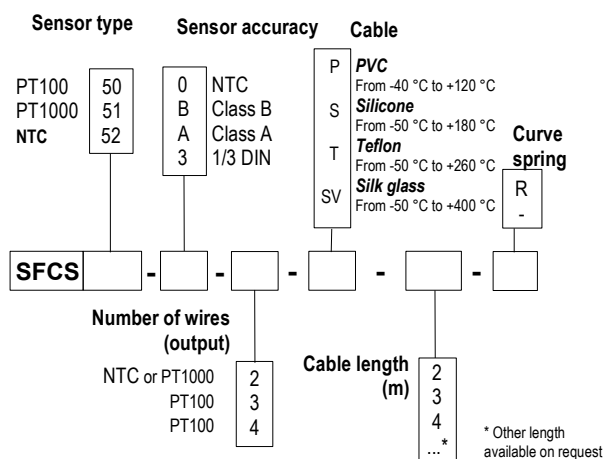
## Surface contact wire temperature probe

### SFCS 50 / SFCSD 50

- Temperature probe with copper tip for surface contact
- Measuring ranges (according to cable) **from -50 °C to +400 °C** (PT100 and PT1000).  
**from -20 °C to +120 °C** (NTC)
- Wire mounting: **simple** (2,3 or 4 wires).  
**duplex** (4 or 6 wires)
- For other resistance types (PT25, PT50, PT500, PT200 or NI, please contact us)

#### PART NUMBERS

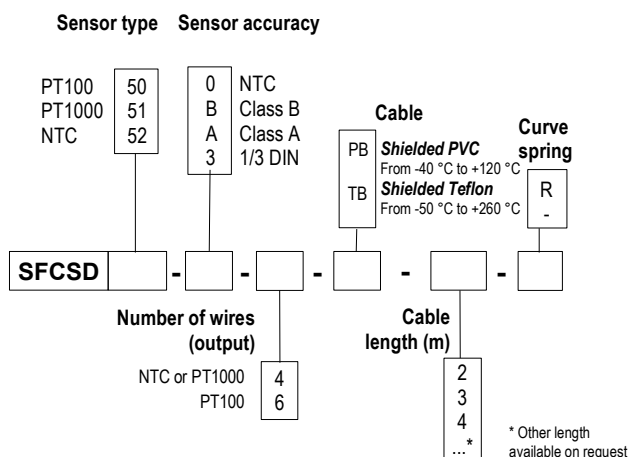
##### • SFCS – Single pair probe



Example: SFCS50-B-3-P-4

Model: Class B Pt100 temperature probe, 3-wire, PVC cable length 4 m, without curve spring. Measuring range from -40 to +120 °C.

##### • SFCSD – Multipair probe



Example: SFCSD50-B-6-PB-4

Model: Class B Pt100 temperature probe, 6-wire, shielded PVC cable length 4 m without curve spring. Measuring range from -40 to +120 °C.

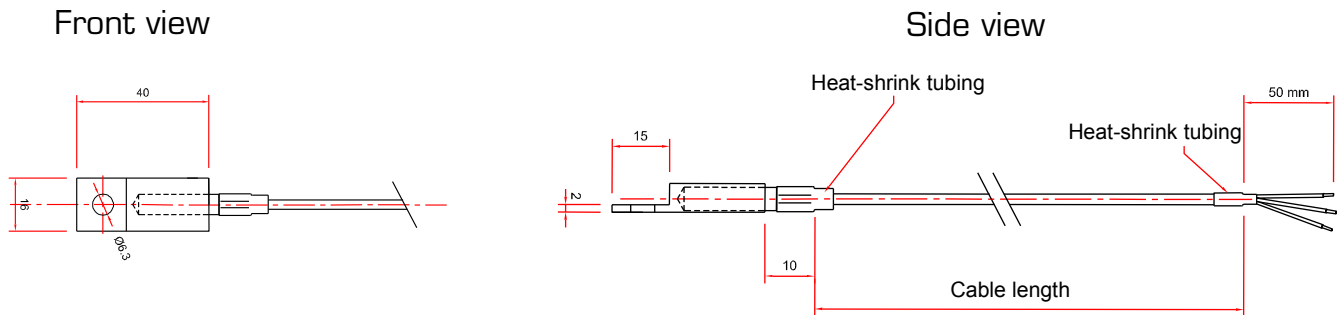
#### TRANSMITTER FEATURES

Operating temperature (according to cable)	For SFCS types From -50 °C to +400 °C (PT100 and PT1000) From -20 °C to +120 °C (NTC) For SFCSD types From -50 °C to +250 °C (PT100 and PT1000) From -20 °C to +120 °C (NTC)
Accuracy	PT100 or PT1000: see "Tolerances" table NTC: see "Tolerances" table
Sensor type	PT100 or PT1000: Class B, Class A, 1/3 DIN as per DIN IEC751 NTC: resistance at 25 °C, $R_{25} = 10K\Omega$ Nominal Beta value $B_{25/85} = 3.695K \pm 1\%$
Wire mounting	Single pair, 2, 3 or 4 wires Multipair 4 or 6 wire
Contact tip	40 x 16 x 7,5mm Ø 6.3 mm hole made of copper
Operating temperature for cable	PVC: from -40 °C to +120 °C Silicone: from -50 °C to +180 °C Teflon (PFA): from -50 °C to +260 °C Silk glass: from -50 °C to +400 °C

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



## DIMENSIONS



## TOLERANCES\* OF PT100 AND PT1000 PROBES

As per IEC 751 (1993) norm.

Temp °C	Tolerances					
	Class B		Class A		1/3 DIN	
	± °C	± Ohms	± °C	± Ohms	± °C	± Ohms
-100	0.8	0.32	0.35	0.14	0.27	0.11
-50	0.55	0.22	0.25	0.1	0.19	0.08
0	0.3	0.12	0.15	0.06	0.1	0.04
100	0.8	0.3	0.35	0.13	0.27	0.1
200	1.3	0.48	0.55	0.2	0.44	0.16
300	1.8	0.64	0.75	0.27	0.6	0.21
400	2.3	0.79	0.95	0.33	0.77	0.26

Resistance values for Pt1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). For example: at 0 °C for Class B Pt1000 ± 0.3 °C → ± 1.2 Ω

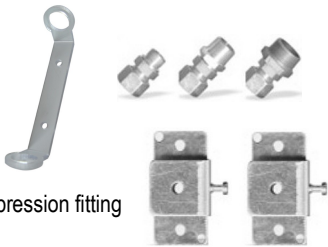
## TOLERANCES\* OF NTC PROBES

Measuring range °C	Tolerances °C
From -20 °C to 0 °C	± 0.5 °C
From 0 °C to +70 °C	± 0.2 °C
From +70 °C to +100 °C	± 0.5 °C

\* 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.

## ACCESSORIES (SEE RELATED DATASHEET)

- Transmitter output 4-20 mA or 0/10 V
- Wall mounting support
- Stainless steel mounting brackets
- 1/4, 1/2 gas screw nut
- Sliding connection
- Teflon or stainless. steel ferrule for compression fitting



- Sleeve to weld for food industry (with 1/2" G female)
- Stainless steel junction fitting
- 1/2 gas or NPT thread cuff
- Thermo-conducting silicone grease
- Calibration certificate
- Thermowell



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