

## SCT102



- temperature range  $-40 \div 1200^{\circ}\text{C}$  depending on thermocouple
- operating temperature of connection heads max.  $150^{\circ}\text{C}$
- stainless steel sheath
- mounting flange
- possibility of mounting a 4...20 mA or 0...10 V temperature transmitter
- connection head DANW with local display

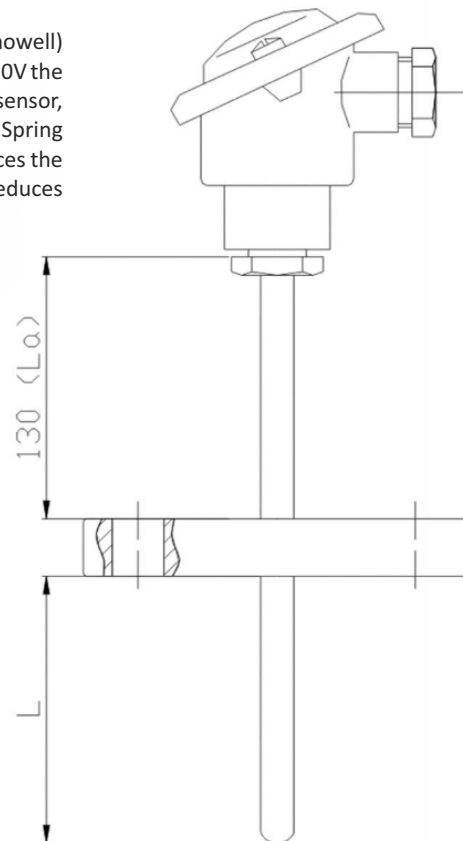
The thermocouple **SCT102** consists of an exchangeable measuring insert, outer protective tube (thermowell) with neck and aluminum connection head. Mounting a temperature transmitter with 4...20 mA or 0...10V the output signal is possible. The measuring insert represents the replaceable element of the complete sensor, which reduces the time and costs of maintenance of the measuring apparatus installed in the object. Spring fixation of the measuring insert provides perfect pressure to the bottom of the protecting tube, reduces the time of reaction to changes of temperature and increases the accuracy of measurement as well as reduces natural vibration thus mechanical, and electrical defects can be avoided.

### Application areas:

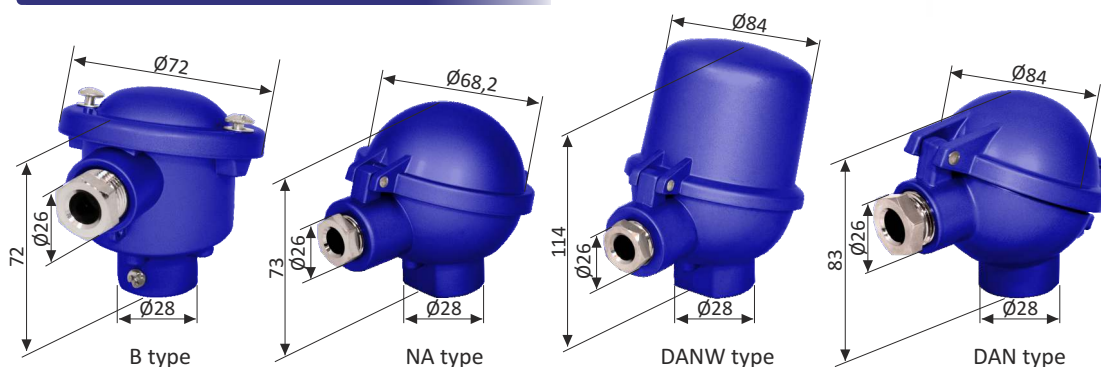
- fine chemical industry,
- light energy industry,
- general industrial services.

### TECHNICAL DATA

Sensing element	J, K, N thermocouple (single, double)
Measuring range	$-40 \div 1200^{\circ}\text{C}$ (depending on thermocouple and material)
Connection head	B, NA or other, operating temperature $-40 \div 150^{\circ}\text{C}$
Class	1 or 2
Sheath	material: stainless steel 1.4541 or other nominal length: 130 mm (standard) diameter: $4 \div 15$ mm



### CONNECTION HEAD TYPES

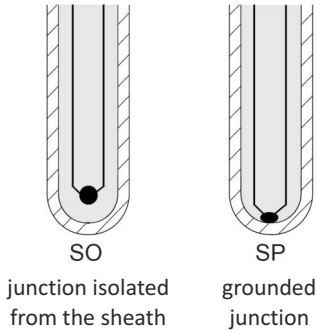


### THERMOCOUPLES TOLERANCE ACC. TO PN-EN 60584

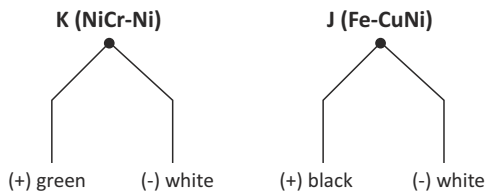
Thermocouple	Class 1		Class 2	
	Temperature range	Tolerance	Temperature range	Tolerance
J (Fe-CuNi)	$-40 \div 750^{\circ}\text{C}$	$\pm 1,5^{\circ}\text{C}$	$-40 \div 750^{\circ}\text{C}$	$\pm 2,5^{\circ}\text{C}$
K (NiCr-Ni)	$-40 \div 1000^{\circ}\text{C}$	$\pm 0,0040^{\circ}\text{C} \times  t $	$-40 \div 1200^{\circ}\text{C}$	$\pm 0,0075^{\circ}\text{C} \times  t $
N (NiCrSi-NiSi)	$-40 \div 1000^{\circ}\text{C}$		$-40 \div 1200^{\circ}\text{C}$	



**TYPES OF MEASURING HOT JUNCTION**

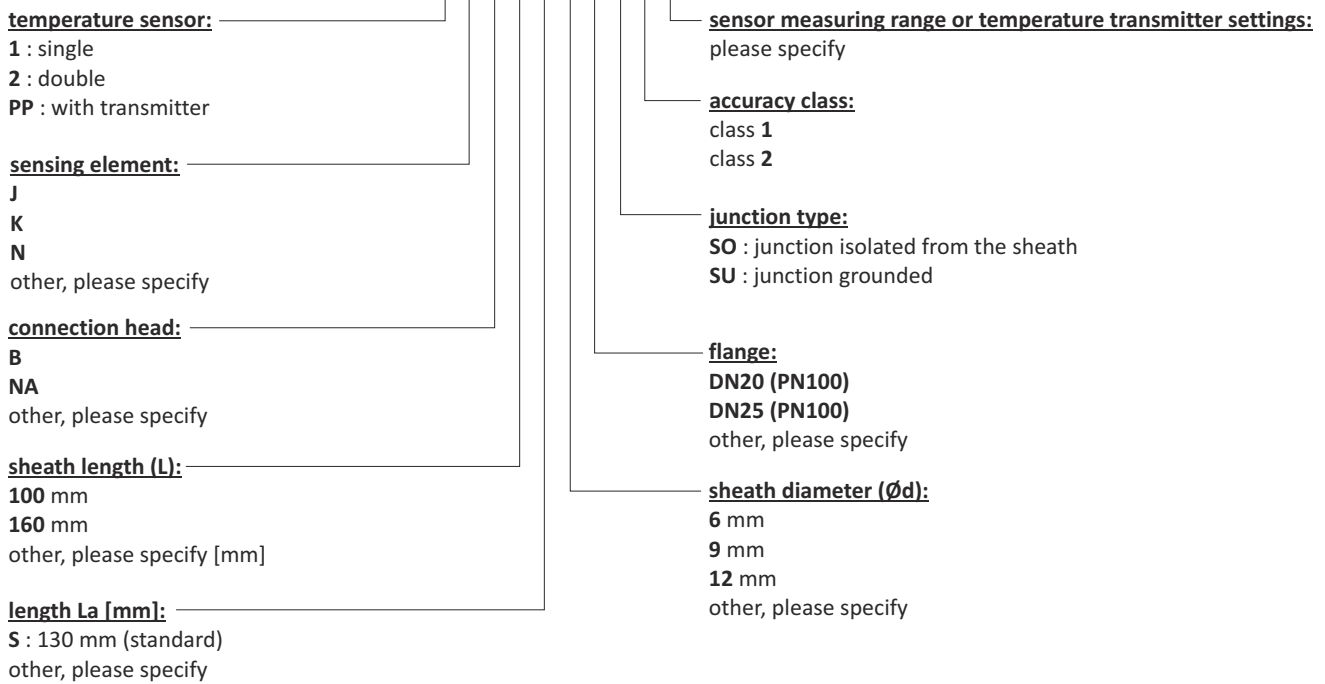


**ELECTRICAL CONNECTION**



**ORDERING**

SCT102-X-X-X-X-X-X-X-X-X-X



Ordering example:

**SCT102-1-K-NA-100-S-9-DN20(PN100)-SU-2-150°C**

Single TC temperature sensor, K thermocouple, 2 tolerance class, with NA head type and DN20 mounting flange according to PN100, sheath diameter  $\varnothing$ 9 mm and length L=100 mm, hot junction grounded, sensor measuring range 150°C.

