



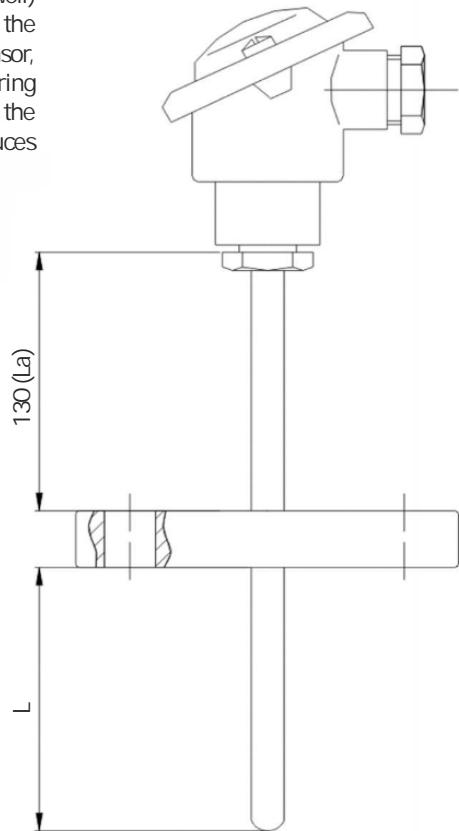
SCT102

- temperature range -40 ÷ 1200°C depending on thermocouple
- operating temperature of connection heads max. 150°C
- stainless steel sheath
- mounting flange
- possibility of mounting a 4..20mA or 0..10V 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..20mA 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.



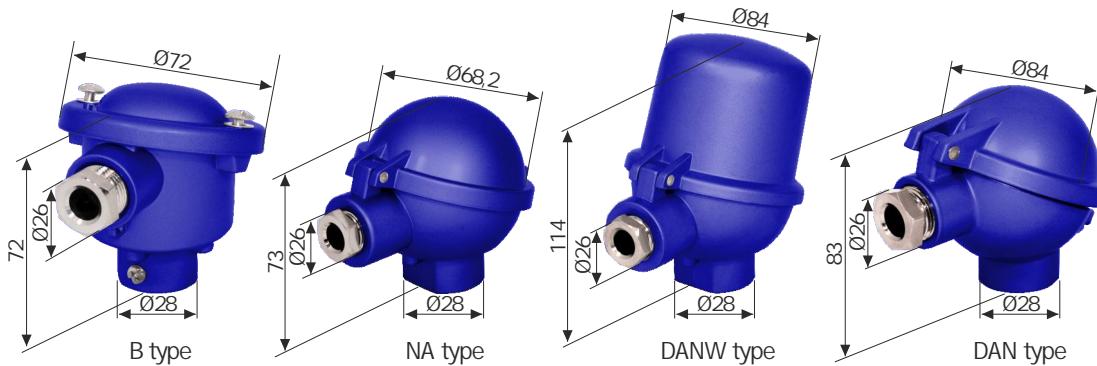
TECHNICAL DATA

Sensing element	J, K, N, R, S, B thermocouple or other (single, double)
Measuring range	-40 ÷ 1200°C (depending on thermocouple and material)
Connection head	B, NA or other, operating temperature -40 ÷ 150°C
Class	1 or 2
Sheath	material: stainless steel 1.4541 or other proper sheath length (L): 100 mm, 160 mm or other transitional sheath length (La): 130 mm (standard) diameter: 4 ÷ 15 mm

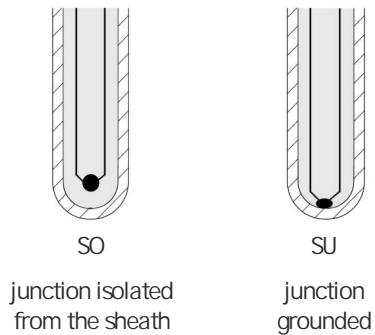
THERMOCOUPLES TOLERANCE ACC. TO PN-EN 60584

Thermocouple	Class 1		Class 2	
	Temperature range	Tolerance	Temperature range	Tolerance
J (Fe-CuNi)	-40 ÷ 750°C	± 1,5°C	-40 ÷ 750°C	± 2,5°C
K (NiCr-Ni)	-40 ÷ 1000°C	± 0,0040°C x t	-40 ÷ 1200°C	± 0,0075°C x t
N (NiCrSi-NiSi)	-40 ÷ 1000°C		-40 ÷ 1200°C	

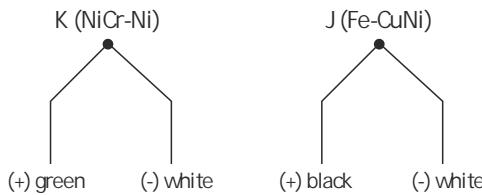
CONNECTION HEAD TYPES



TYPES OF MEASURING HOT JUNCTION



ELECTRICAL CONNECTION



ORDERING

<u>temperature sensor:</u> 1 : single 2 : double PP1 : without ceramic block PP2 : with RTD/TC transmitter, 4...20mA PP3 : with other transmitter (on request)	<u>sensing element:</u> J K N other, please specify	<u>connection head:</u> B NA other, please specify	<u>proper sheath length (L):</u> 100 mm 160 mm other, please specify [mm]	<u>transitional sheath length (La):</u> S: 130 mm (standard) other, please specify	<u>sensor measuring range, output type or temperature transmitter settings:</u> please specify
					<u>accuracy class:</u> class 1. class 2
					<u>junction type:</u> SO : junction isolated from the sheath SU : junction grounded
					<u>flange:</u> DN20 (PN100) DN25 (PN100) other, please specify
					<u>sheath diameter (Od):</u> 6 mm 9 mm 12 mm other, please specify

Ordering example:

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

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