

SCT122



- temperature range depending on thermocouple:
 - 40 ÷ 1100°C with a replaceable measuring insert
 - 40 ÷ 450°C without replaceable measuring insert
- operating temperature of connection heads max. 150°C
- stainless steel sheath
- possibility of mounting a 4...20mA or 0...10V temperature transmitter
- connection head DANW with local display

The thermocouple SCT122 is intended for measuring the temperature of pipelines, tanks, machines and devices in various industrial installations. The sensor consists of an aluminum connection head and a stepped sheath of a given diameter, which results in increased measurement dynamics. Replacement of the measuring insert does not cause the technological installation damage.

Application areas:

- industrial and technological installations in various industries,
- temperature measurement of pipelines, tanks, boilers,
- measurement of all media (gases, liquids, solids).

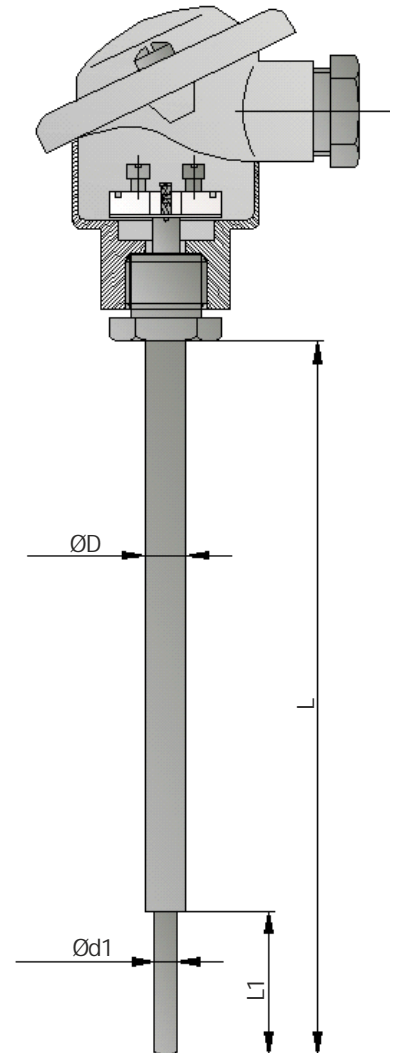
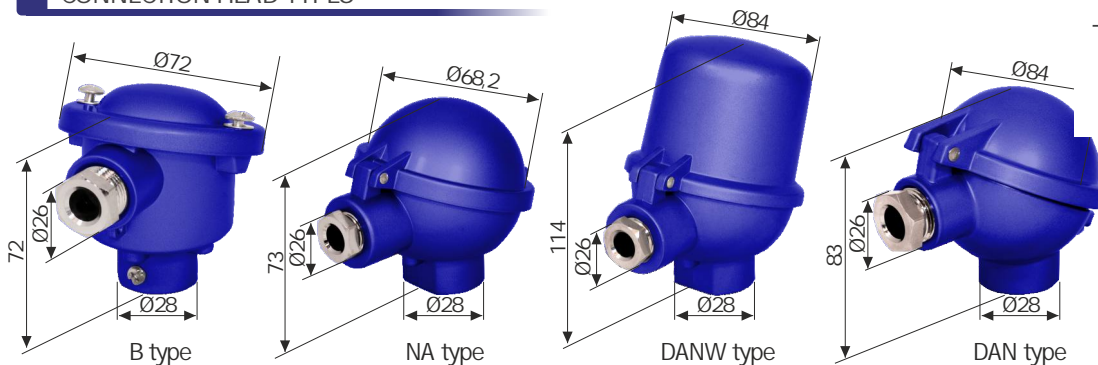
TECHNICAL DATA

Sensing element	J, K, N, R, S, B thermocouple or other (single, double)
Measuring range	depending on thermocouple and material: -40 ÷ 1100°C (with a replaceable measuring insert); -40 ÷ 450°C (without replaceable measuring insert)
Connection head	B, NA, MA, DAN or other, operating temperature -40 ÷ 150°C
Class	1 or 2
Sheath	material: stainless steel 1.4571 nominal length: 100 mm (or other, specified when ordering) diameter: 6, 8 mm or other

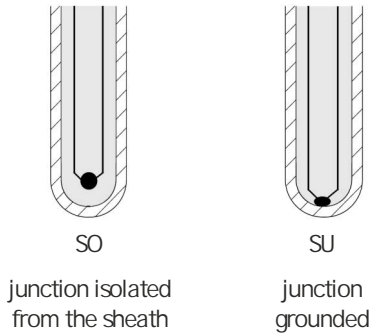
THERMOCOUPLES TOLERANCE ACC. TO PN-EN 60584

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 (NiCr-Si-NiSi)	-40 ÷ 1000°C		-40 ÷ 1200°C	
B (PtRh30-PtRh6)	-	-	600 ÷ 1700°C	± 0,0025°C x t
R (PtRh13-Pt)	0 ÷ 1100°C	± 1,0°C	0 ÷ 600°C	± 1,5°C
S (PtRh10-Pt)	1100 ÷ 1600°C	± [1+0,003(t-1100)]°C	600 ÷ 1600°C	± 0,0025°C x t

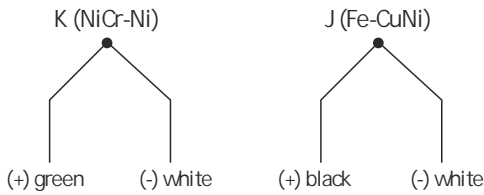
CONNECTION HEAD TYPES



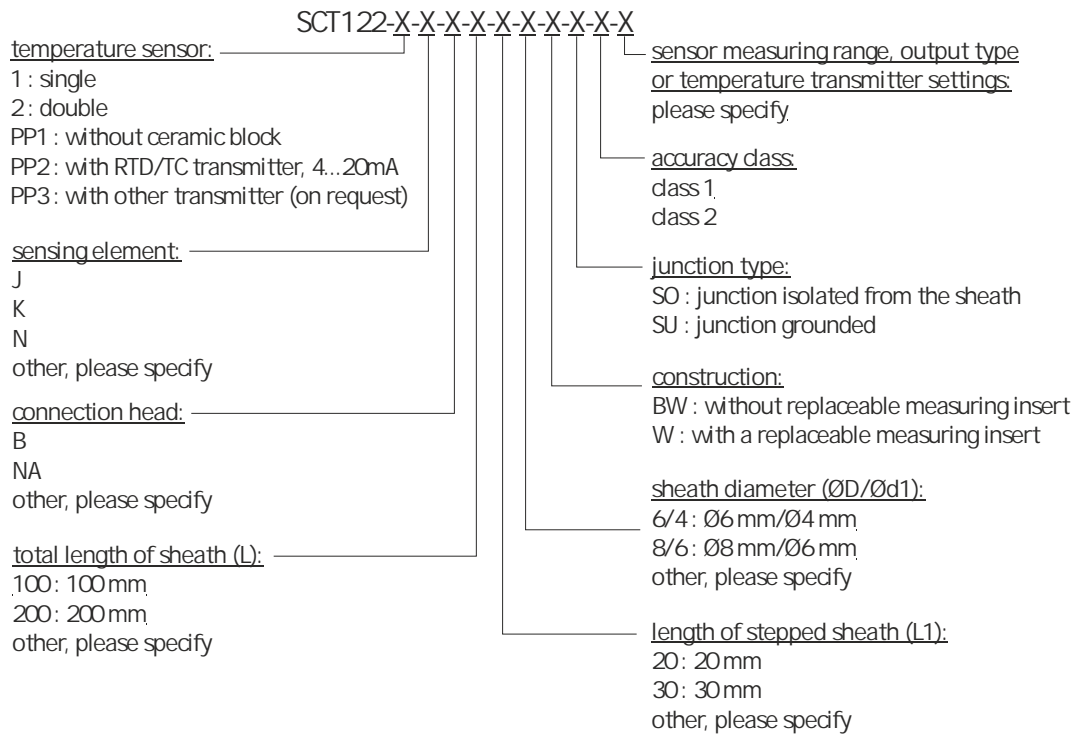
TYPES OF MEASURING HOT JUNCTION



ELECTRICAL CONNECTION



ORDERING



Ordering example:

SCT122-1-N-NA-100-20-8/6-BW-SO-2-(-10-400)

Single TC temperature sensor, K thermocouple, 2 tolerance class, without replaceable measuring insert, hot junction isolated from the sheath, NA head type, pressure sheath diameter 8 mm, length 100 mm, stepped part with a length of 20 mm and a diameter of 6 mm, sensor measuring range -10°C... 400°C.

