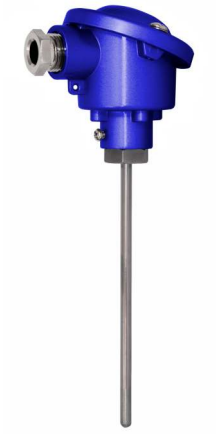
SCT101

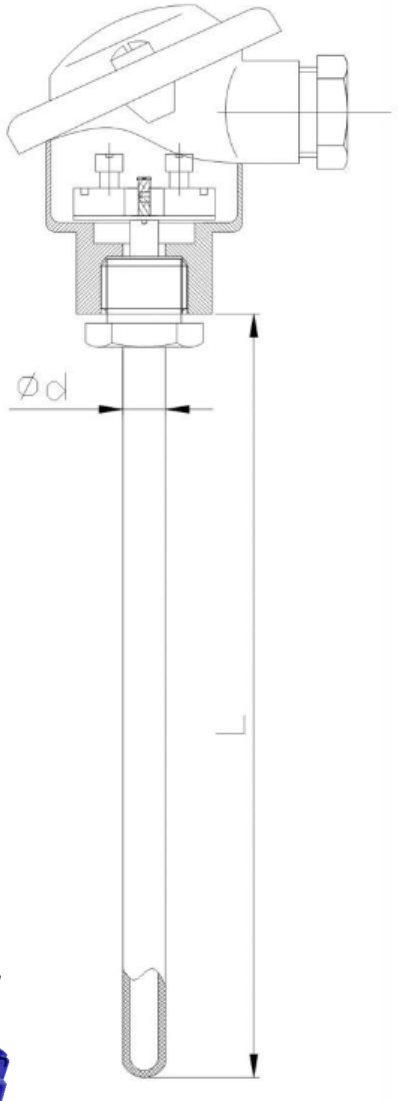


- **temperature range -40 ÷ 1200°C depending on thermocouple**
- **operating temperature of connection heads max. 150°C**
- **stainless steel sheath**
- **optional: sensor with a replaceable measuring insert**
- **possibility of mounting a 4...20 mA or 0...10 V temperature transmitter**
- **connection head DANW with local display**

The thermocouple **SCT101** consists of an optional exchangeable measuring insert, outer protective tube (thermowell) and aluminum connection head. Mounting a temperature transmitter with 4...20 mA or 0...10V 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. Compression fittings allow simple adaptation to the required insertion length at the installation point.

Application areas:

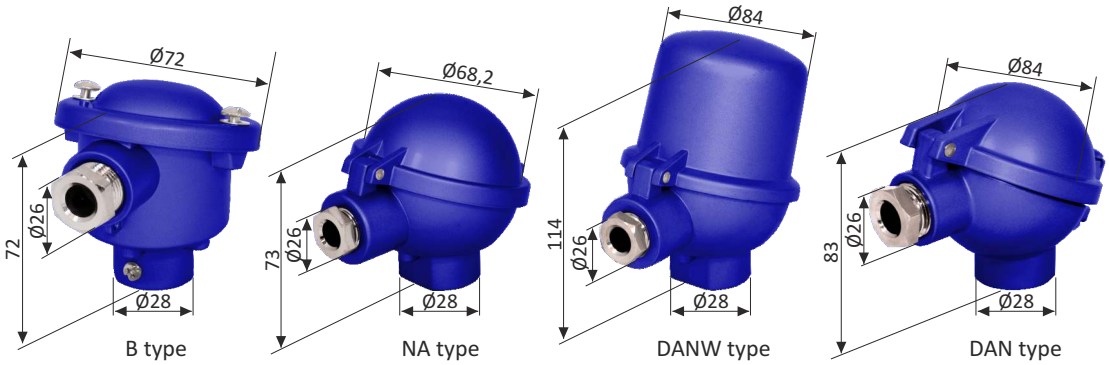
- machine construction, tanks or containers,
- fine chemical industry,
- light energy industry,
- food industry,
- general industrial services.



TECHNICAL DATA

Sensing element	J, K, N thermocouple (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 nominal length: 100 mm, 160 mm or other diameter: 4 ÷ 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) **K (NiCr-Ni)** **N (NiCrSi-NiSi)**	-40 ÷ 750°C -40 ÷ 1000°C -40 ÷ 1000°C	± 1,5°C ± 0,0040°C x |t|	-40 ÷ 750°C -40 ÷ 1200°C -40 ÷ 1200°C	± 2,5°C ± 0,0075°C x |t|

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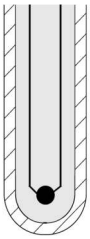
OPTIONAL ACCESORIES

S type flange
(stainless steel)

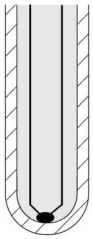
T type flange
(PTFE)

Threaded holder (fitting)
with a compression ferrule
(brass or stainless steel)

TYPES OF MEASURING HOT JUNCTION

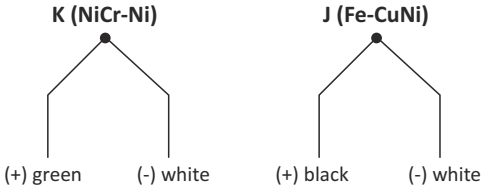


SO
junction isolated
from the sheath



SP
grounded
junction

ELECTRICAL CONNECTION



ORDERING

SCT101-X-X-X-X-X-X-X-X-X

temperature sensor:
1 : single
2 : double
PP : with transmitter

sensing element:
J
K
N
other, please specify

connection head:
B
NA
other, please specify

sheath length (L):
100 mm
160 mm
other, please specify [mm]

sensor measuring range or temperature transmitter settings:
please specify

accuracy class:
class **1**
class **2**

junction type:
SO : junction isolated from the sheath
SU : junction grounded

sheath diameter (Ød):
4 mm
6 mm
9 mm
other, please specify

measuring insert:
BW : non-replaceable
W : replaceable

Ordering example:
SCT101-1-K-B-100-BW-6-SO-2-150°C
Single TC temperature sensor, K thermocouple, 2 tolerance class, non-replaceable measuring insert, B head type, sheath diameter ø9 mm and length L=100 mm, hot junction isolated from the sheath, sensor measuring range 250°C.

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