

SCT207



- temperature range $-40 \div 400^{\circ}\text{C}$ (depending on the cable used)
- mounting by threaded process connection
- stainless steel sheath
- minimum sheath length: 15 mm, minimum sheath diameter: 3 mm
- thermowell spring protection against excessive cable bending

The thermocouples SCT207 are designed for assembling directly onto machine parts or other construction elements. Consist of a thermocouple sensor, protection tube, made out of stainless steel and connection cable.

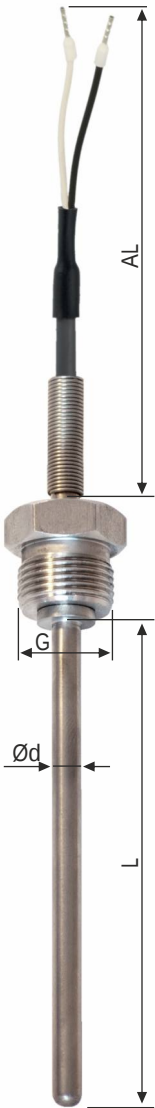
Application areas:
- fine chemical industry,
- light energy industry,
- general industrial services.

TECHNICAL DATA

Sensing element	J, K, N, R, S, B thermocouple or other (single, double)
Measuring range	$-40 \div 400^{\circ}\text{C}$ (depending on the cable used)
Class	1 or 2
Sheath	material: stainless steel nominal length (min. 15 mm): 50 mm (standard), 100 mm or other diameter (min. 3 mm): 4 mm, 5 mm, 6 mm or other
Cable	type according to the table, standard length 1500 mm or other according to order
Process connection	G1/2; M12x1; M14x1,5 or other according to order

CONNECTION CABLES

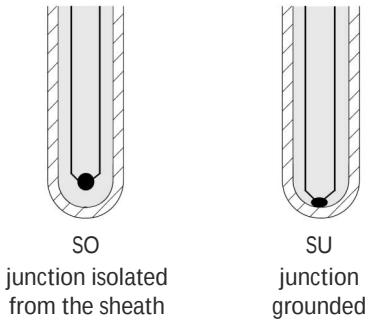
Diagram	Insulation design	Temperature range	Code
	Double fiberglass - stainless steel	$-40 \div 400^{\circ}\text{C}$	WS
	PVC	$-10^{\circ}\text{C} \div 105^{\circ}\text{C}$	PVC
	Teflon - stainless steel - teflon	260°C max.	TOT
	Teflon - stainless steel	260°C max.	TO
	Silicon - stainless steel - silicon	180°C max.	SOS
	Silicon - silicon	$-30^{\circ}\text{C} \div 250^{\circ}\text{C}$	SS
	Teflon - teflon	$-40^{\circ}\text{C} \div 260^{\circ}\text{C}$	TT



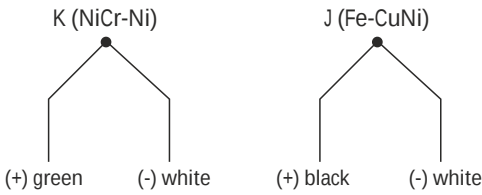
THERMOCOUPLES TOLERANCE ACC. TO PN-EN 60584

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	
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

TYPES OF MEASURING HOT JUNCTION



ELECTRICAL CONNECTION



ORDERING

SCT207-X-X-X-X-X-X-X-X

temperature sensor:
1 : single
2 : double

sensing element:
J
K
N
other, please specify

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

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

process connection:
M12x1 (standard)
G1/2"
M14x1,5
other, please specify

accuracy class:
class 1
class 2

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

connecting cable length (AL):
1500 : 1,5 linear meter
other, please specify [mm]

insulation types of connection cable:
PVC : PVC / PVC (105°C max.)
TT : teflon / teflon (260°C max.)
SS : silicon / silicon (250°C max.)
WS : double fibreglass / stainless steel (400°C max.)

Ordering example:
SCT207-1-K-6-50-M14x1,5-WS-1500-SO-2
Single TC temperature sensor, K thermocouple, 2 tolerance class, process connection M14x1,5, thermowell diameter 6 mm, length 50 mm, double fibreglass insulation, connection cable length 1500 mm, hot junction isolated from the sheath.

