

SCT210



- temperature range -10 ÷ 300°C (depending on the cable used)
- mounting using a magnet and a pressure spring
- various magnetic surfaces
- thermowell spring protection against excessive cable bending

The thermocouples SCT210 are designed to measure the temperature of flat magnetic surfaces. The sensor consists of a neodymium magnet of a specific shape and a connection cable. Thanks to the special structure and the use of a pressure spring, the measuring element adheres tightly to the measured surface, which ensures measurement accuracy and dynamics.

Application areas:

- temperature measurement of ferrous material,
- general industrial services.

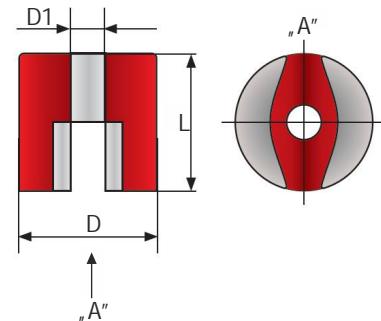


TECHNICAL DATA

Sensing element	J, K, N, R, S, B thermocouple or other (single, double)
Measuring range	-10 ÷ 300°C (depending on the cable used)
Class	1 or 2
Cable	type: single cond teflon or single cond fibreglass, standard length 1500 mm or other according to order

MAGNETIC SURFACE

Magnetic surface	Diameter D	Diameter D1	Length L	Adhesion force
M1	Ø 13 mm	Ø 4,2 mm	10 mm	7 [N]
M2	Ø 19 mm	Ø 5,4 mm	13 mm	19 [N]
M3	Ø 25 mm	Ø 5,4 mm	16 mm	29 [N]
M4	Ø 32 mm	Ø 7 mm	25 mm	66 [N]

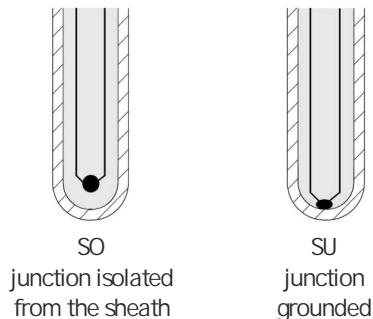


THERMOCOUPLES TOLERANCE ACC. TO PN-EN 60584

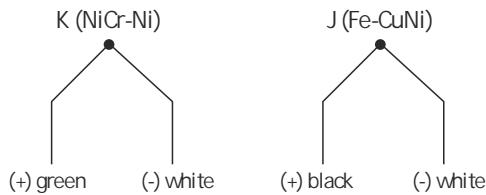
Thermocouple	Class 1		Class 2	
	Temperature range	Tolerance	Temperature range	Tolerance
J (Fe-CuNi) K (NiCr-Ni) N (Ni0,5Si-NiSi)	-40 ÷ 750°C -40 ÷ 1000°C -40 ÷ 1000°C	± 1,5°C ± 0,0040°C x t	-40 ÷ 750°C -40 ÷ 1200°C -40 ÷ 1200°C	± 2,5°C ± 0,0075°C x t
B (PtRh30-PtRh6)	-	-	600 ÷ 1700°C	± 0,0025°C x t
R (PtRh13-Pt) S (PtRh10-Pt)	0 ÷ 1100°C 1100 ÷ 1600°C	± 1,0°C ± [1+0,003(t-1100)]°C	0 ÷ 600°C 600 ÷ 1600°C	± 1,5°C ± 0,0025°C x t



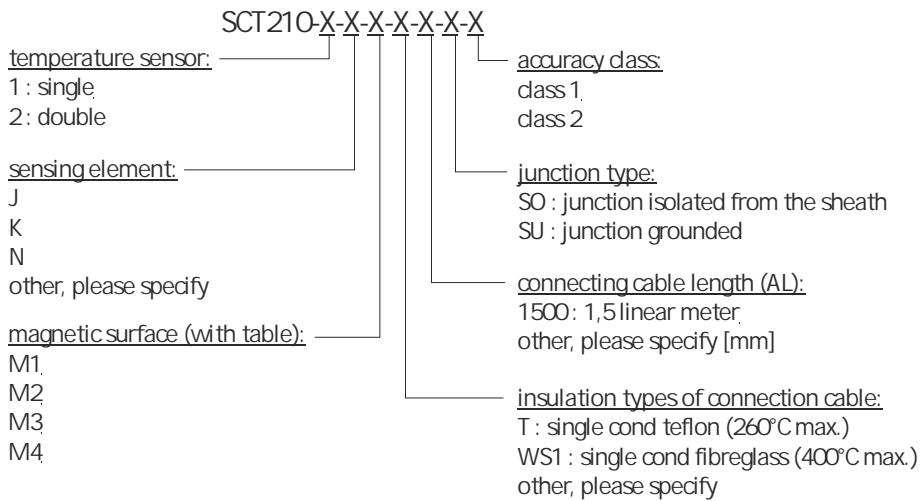
TYPES OF MEASURING HOT JUNCTION



ELECTRICAL CONNECTION



ORDERING



Ordering example:

SCT210-1-K-M1-T-1500-SO-2

Single TC temperature sensor, K thermocouple, 2 tolerance class, magnet type M1, single conductors in teflon insulation, connection cable length 1500 mm, hot junction isolated from the sheath.

