

MEASURING INSERTS FOR TEMPERATURE SENSORS



SWP3

- measuring insert for thermocouples
- ceramic isolator
- measuring range +1800°C depending on thermocouple
- sheath made of C610 (60% Al₂O₃)
- long-term measurement of high temperatures
- short reaction time to temperature changes

Measuring insert SWP3, in a ceramic cover (C610), for thermocouple thermometers, is made of internal thermocouple wires insulated from each other with ceramic insulation. This provides the sensor with high temperature resistance as well as electrical insulation.

TECHNICAL DATA

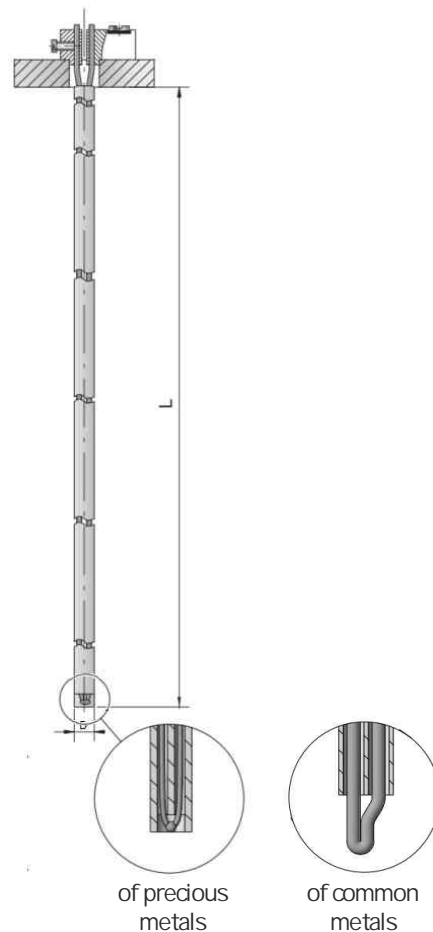
Sensing element	J, K, N, R, S, B thermocouple (single, double)
Measuring range	0 ÷ 1200°C thermocouples of common metals 0 ÷ 1800°C thermocouples of precious metals
Class	1 or 2
Material	mullite 610 ceramics

CERAMIC ISOLATOR DIMENSIONS

Wire diameter	thermocouple type / isolator dimensions				
	K	N	J	R/S	B
0.35 mm 0.50 mm	-	-	-	Ø3.5 mm; Ø8.5 mm Ø8.5 mm	- Ø8.5 mm
2.00 mm 3.00 mm	Ø9x50 mm 12x8x100 mm Ø16x100 mm	Ø9x50 mm 12x8x100 mm Ø16x100 mm	Ø9x50 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	-
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



ORDERING

