

● Characteristics

1 - TEMPERATURE SENSOR

Thermocouple:	type J (Fe-CuNi) / type K (NiCr-Ni) The operative temperature range is dependent on the selected connection cable.	all dimensions in mm
Protective sheath:	stainless steel 2.4816 (Inconel 600)	
Sleeve joint:	stainless steel 1.4571 (316Ti)	
Ø Protective sheath:	1,5 / 3 / 4,5 / 6 mm wall thickness: 0,25...1 mm	
Nominal length:	standard: 100 mm maximum length: 2000 mm option: according to details	
Connection cable:	PVC-PVC / PTFE-silicone / PTFE-PTFE / PTFE-braiding-PTFE Fibreglass-Fibreglass-stainless steel braiding	
Connection:	cable, open ends, bared, 70 mm option: TE-plug standard option: TE-plug mini (for 1,5 and 3 mm) option: other length (open ends, cable) option: open ends, bare, 20 mm (without cable)	
Bend radius:	minimum 5x of sheath tube	
Cable length:	standard: 2 m option: according to details option: without cable	
Antikink:	without	
Sheath to cable:	hexagonal crimp option: ring crimp	
Protection:	IP 65 (up to 250 °C) not for stainless steel braiding	
Insulating resistance:	test voltage: 500 VDC	
Mineral insulator:	metal oxide	
Accuracy:	according DIN EN 60584-2 class 1 type J: $\pm 1,5\text{ °C}$ (-40...375 °C) $\pm 0,004 t $ (375...750 °C) type K: $\pm 1,5\text{ °C}$ (-40...375 °C) $\pm 0,004 t $ (375...1000 °C)	
Response time:	sheath 3 mm: t_{90} : 5 s / t_{50} : 2 s	
Accessories:	compression fitting (see data sheet WT-TE-Z) sheet flange (see data sheet WT-TE-Z)	

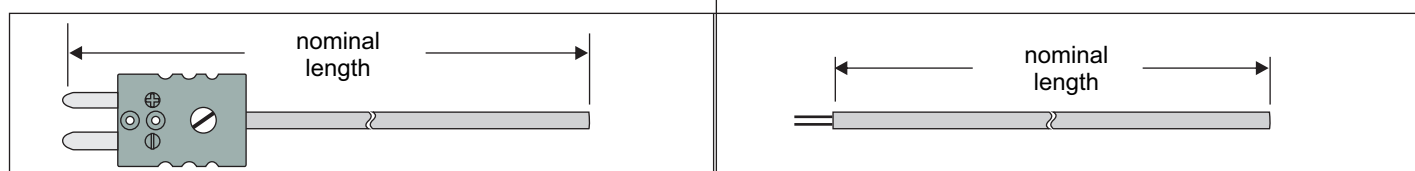
Connection cable:

Type K: PTFE-silicone: 2x0,22 mm² and 4x0,22 mm² / Fibreglass-Fibreglass: 2x0,5 mm² /

Fibreglass-Fibreglass-SS braid: 2x0,22 mm² and 2x0,5 mm²

Typ J: Fibreglass-Fibreglass: 2x0,5 mm² / Fibreglass-Fibreglass-SS braid: 2x0,22 mm² and 4x0,22 mm²

● Option TE plug / option without connection cable



● Ordering details

Product code: KB		
Type thermocouple		
0	1x type J	☐
1	1x type K	☐
Material protective sheath		
0	stainless steel 2.4816 (Inconel 600)	☐
Ø protective sheath		
0	1,5 mm	☐ mm
1	3 mm	☐
2	4,5 mm	☐
3	6 mm	☐
4	other diameter (please indicate)	☐
Nominal length		
0	100 mm	☐ mm
1	other length	☐
connection cable		
0	PVC/PVC	☐
1	PTFE/silicone	☐
2	PTFE/PTFE	☐
3	PTFE/braiding/PTFE	☐
4	F-glass/F-glass/ss braiding	☐
5	without (open ends, bare, 20 mm)	☐
Connection		
0	open ends, 70 mm, bare (cable)	☐
1	TE-plug standard (without cable)	☐
2	TE-plug mini (without cable)	☐
3	open ends, other length (cable)	☐
Cable length		
0	2 m	☐ mm
1	other length	☐
Special model		
0	customized (please indicate)	☐
Used temperature range		
please indicate		- °C

Connection cable:

Type K: PTFE-silicone: 2x0,22 mm² and 4x0,22 mm² / Fibreglass-Fibreglass: 2x0,5 mm² /

Fibreglass-Fibreglass-SS braid: 2x0,22 mm² and 2x0,5 mm²

Typ J: Fibreglass-Fibreglass: 2x0,5 mm² / Fibreglass-Fibreglass-SS braid: 2x0,22 mm² and 4x0,22 mm²

Maximum operative temperature range:

Thermocouple: type J: -200...700°C / type K: -200...1000°C

Protective sheath: stainless steel 1.4571 (316Ti): up to 600°C / Inconel 600 (2.4816): up to 1100°C

Connection cable: PVC: -5...70°C / silicone: -45...180°C / PTFE: -75...250°C / Fibreglass/SS braid: -60...550°C

Compression fitting: -75...+250 °C

subject to change, version 42-555