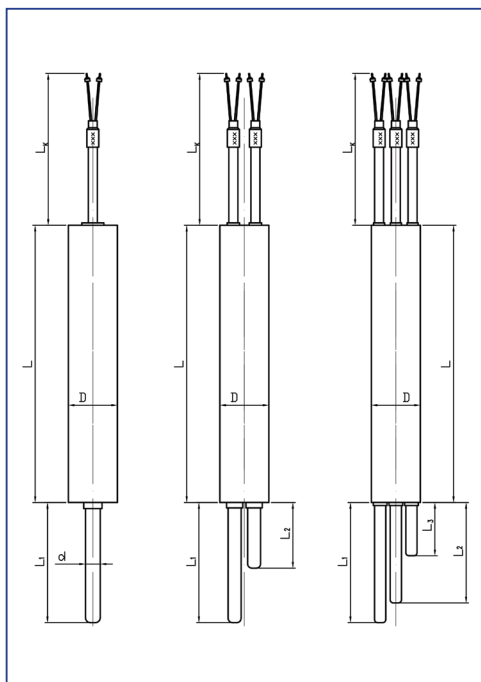


TP-nPKb-58

Straight Thermocouple (Type J, K) Multipoint with cable



Straight multiple sheathed thermocouple type TP-nPKb-58 with connection cable has been designed for precise, high range temperature measurements -40°C to +1000°C.

The main area of application is temperature measurement of process fluids where high temperature variations are expected and short sensor time constant is required at different immersion lengths.

Thermometer could be provided with clamp connection UZG-47.

Technical specification

Sheathed sensor insert	Version	Temp. range - Class 1	Sheath material	Characteristic
1xFe-CuNi (J), 2xFe-CuNi (J) 1xNiCr-NiAl (K), 2xNiCr-NiAl (K)	ø 3	-40°C..+500°C -40°C..+700°C	Inconel 600 / 2.4816	acc. EN 60584-1
1xFe-CuNi (J), 2xFe-CuNi (J) 1xNiCr-NiAl (K), 2xNiCr-NiAl (K)	ø 6	-40°C..+600°C -40°C..+800(+1000*)°C		

* Upper temperature depends on working conditions and protection tube material

Protect. tube diam. d	Material acc. DIN/AISI	Protect. tube length L [mm]	Sensor length L _n [mm]	Junction
ø20, ø22	1.4841 / 314	on request	on request	ungrounded
	1.4762 / 446			grounded

Thermocouple	Configuration	Dimension	Compensation cable type	Insulation	Temp. limits
Single	2 wire (1-pair)	ø 3,2	L2GGD-J-0,22mm2	glass fibre, glass fibre, screen	+400°C
		ø 3,3	L2GGD-K-0,22mm2		
Double	4 wire (2-pair)	ø 4,0	L4GGD-J-0,22mm2		
		ø 3,6	L4GGD-K-0,22mm2		

Non-standard models available.

Threaded compression fitting type UZG-47

on request, acc. to catalog card – UZG-47

www.alf-sensor.com

Ordering Information

TP	A	PKb-58	B	C	D	E	F	G	H	I	J	K
----	---	--------	---	---	---	---	---	---	---	---	---	---

A Amount of thermocouples n	
	specify amount

B Type of thermocouple	
J	Fe-CuNi
K	NiCr-NiAl

C Junction	
O	ungrounded
Z	grounded

D Protection tube diameter D	
20	D= 20 mm
22	D= 22 mm

E Protection tube length L	
	specify in [mm]

F Protection tube material	
1.4841	1.4841 / 314
1.4762	1.4762 / 446

G Sheath diameter d	
3	d= 3 mm
6	d= 6 mm

H Sensor lengths $L_1 / L_2 / \dots / L_n$	
	specify in [mm]

I Compensation cable type	
2p-L2GGD	2 wire (L2GGD-2x0,22mm ²)
3p-L4GGD	3 wire (L4GGD-4x0,22mm ²)
4p-L4GGD	4 wire (L4GGD-4x0,22mm ²)

J Cable length L_k	
	specify in mm

K Operating temperature	
	specify in °C

Ordering Example

TP-2-PKb-58-K-O-22-1.4841-100-300/150-3-2p-L2GGD-2000-150

stands for: Straight dual thermocouple NiCr-NiAl, junction ungrounded, tube ø22 mm and length L=100 mm, material 1.4841, sheathed sensors lengths of L1=300, L2=150 and diameter ø3 mm, configuration 2-wire, cable type L2GGD, cable length Lk=2000 mm, operating temperature up to 150°C.

www.alf-sensor.com