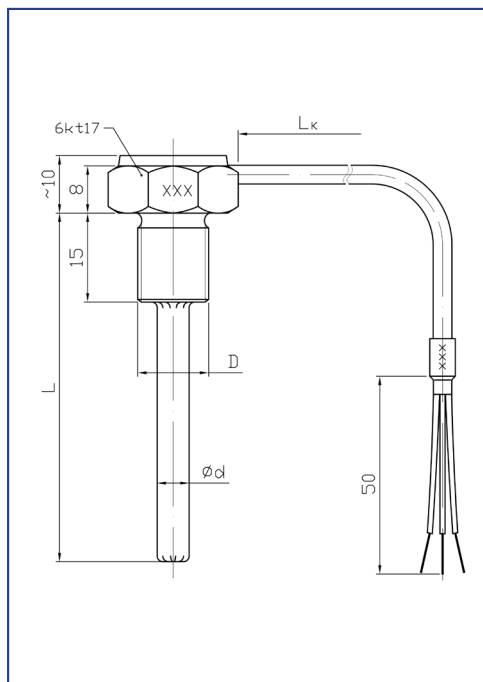


TER-KKbm-93

Thermocouple Angular Miniature



Angular, miniature thermocouple type TER-KKbm-93, has been designed for temperature measurement in machinery, machine sets and sub-assemblies up to +400°C.

Small dimensions allows fast and precise measurement. Additional process connection fitting allows fast and easy assembling. Connection cable long as required, is made for connecting thermocouple to outer instruments.

Type	Execution
TER-KKbm-93	Basic - acc to catalog card
TER-KKbm-93/Exi	Intrinsic safe – acc to Atex

Technical specification

Sheathed sensor insert	Temp. range - Class 1	Characteristic	Junction
1xFe-CuNi (J), 2xFe-CuNi (J)	-40°C..+300°C	acc. EN 60584-1	ungrounded
1xNiCr-NiAl (K), 2xNiCr-NiAl (K)	-40°C..+400°C		grounded

Sheathed protection tube diam. d	Material acc. DIN/AISI	Length L [mm]	Process connection thread D
ø1, ø1,5, ø2, ø3, ø4,5, ø6	2.4816/Inconel 600	on request	on request (e.g. M10x1, M12x1, M20x1,5, G1/2", G1/4", G3/8")

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		
		ø 3,2	L2TDT-J-0,22mm2	teflon, screen, teflon	+260°C
		ø 3,0	L2TDT-K-0,22mm2		
Double	4 wire (2-pair)	ø 4,0	L4GGD-J-0,22mm2	glass fibre, glass fibre, screen	+400°C
		ø 3,6	L4GGD-K-0,22mm2		
		ø 6,0	L4JFJ-J-0,22mm2	PVC, film, PVC	+105°C
		ø 6,0	L4JFJ-K-0,22mm2		

Non-standard models available.

Ordering Information

TER-KKbm-93	A	B	C	D	E	F	G	H	I	J
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A Execution	
-	Basic
/Exi	Intrinsic safe

B Type of thermocouple	
1xJ	Single Fe-CuNi
2xJ	Double Fe-CuNi
1xK	Single NiCr-NiAl
2xK	Double NiCr-NiAl

C Junction	
O	ungrounded
Z	grounded

D Sheathed protection tube diameter d	
1	d= 1 mm
1,5	d= 1,5 mm
2	d= 2 mm
3	d= 3 mm
4,5	d= 4,5 mm
6	d= 6 mm

E Process connection thread D	
	specify type of thread

F Immersion length L	
	specify in mm

G Sheath material	
Inconel600	2.4816/Inconel 600

H Compensation cable type	
2p-L2GGD-J	2 wire (L2GGD-J-0,22)
2p-L2TDT-J	2 wire (L2TDT-J-0,22)
4p-L4GGD-J	4 wire (L4GGD-J-0,22)
4p-L4JFJ-J	4 wire (L4JFJ-J-0,22)
2p-L2GGD-K	2 wire (L2GGD-K-0,22)
2p-L2TDT-K	2 wire (L2TDT-K-0,22)
4p-L4GGD-K	4 wire (L4GGD-K-0,22)
4p-L4JFJ-K	4 wire (L4JFJ-K-0,22)

I Cable length L_K	
	specify in mm

J Operating temperature	
	specify in °C

Ordering Example

TER-KKbm-93-1xK-O-6-M10x1-50-Inconel600-2p-L2GGD-K-4000-200

stands for: Thermocouple angular miniature 1xNiCr-NiAl, basic execution, ungrounded, sheathed protection tube diameter 6mm, thread M10x1, immersion length 50mm, sheath material Inconel600.24816, configuration 2-wire, cable type L2GGD-K length L_K=4000 mm, operating temp. up to 200°C.