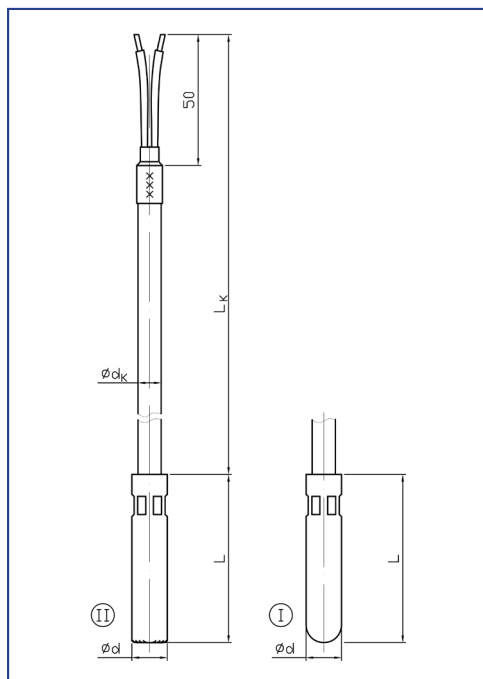


TER-PKbm-40

Thermocouple miniature with connection cable

Miniature thermocouple TER-PKbm-40 has been designed for temperature monitoring of machine sub-assemblies, particularly bearings.

Made of alloy steel protection tube and special connecting cable allow temperature measurement in wide range in various environments.



Type	Execution	Version
TER-PKbm-40	Basic - acc to catalog card	I or II
TER-PKbm-40/ExiM1	Intrinsic for mining purposes – acc to Atex	
TER-PKbm-40/Exi	Intrinsic – acc to Atex	

Technical specification

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

Junction
ungrounded
grounded

Protection tube diameter d [mm]	Material acc. DIN/AISI	Length L [mm]
ø4, ø5, ø6	1.4571/316Ti	on request

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		
		ø 4,2	L2SS-J-0,22mm2	silicone, silicone	+180°C
		ø 3,5	L2SS-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		

Non-standard models available.

Ordering Information

TER-PKbm-40	A	B	C	D	E	F	G	H	I
-------------	----------	----------	----------	----------	----------	----------	----------	----------	----------

A Execution	
I	Basic - round ending
II	Basic - flat ending
I/ExiM1	Intrinsic safe for mining purposes - round ending
II/ExiM1	Intrinsic safe for mining purposes - flat ending
I/Exi	Intrinsic safe - round ending
II/Exi	Intrinsic safe - flat ending

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

C Protection tube diameter d	
4	d= 4 mm
5	d= 5 mm
6	d= 6 mm

D Protection tube length L	
	specify in mm

E Protection tube material	
1.4571	1.4571/316Ti

F Compensation cable type	
2p-L2GGD-J	2 wire (L2GGD-J-0,22)
2p-L2TDT-J	2 wire (L2TDT-J-0,22)
2p-L2SS-J	2 wire (L2SS-J-0,22)
4p-L4GGD-J	4 wire (L4GGD-J-0,22)
2p-L2GGD-K	2 wire (L2GGD-K-0,22)
2p-L2TDT-K	2 wire (L2TDT-K-0,22)
2p-L2SS-K	2 wire (L2SS-K-0,22)
4p-L4GGD-K	4 wire (L4GGD-K-0,22)

G Cable length L_k	
	specify in mm

H Junction	
O	ungrounded
Z	grounded

I Operating temperature	
	specify in °C

Ordering Example

TER-PKbm-40-I/Exi-1xJ-5-50-1.4571-2p-L2GGD-J-3000-O-250

stands for: Thermocouple intrinsic safe with round ending, 1xFe-CuNi, protection tube diameter ø5 mm, protection tube length L=50 mm, material 1.4571, configuration 2-wire, cable type L2GGD-J length L_k=3000 mm, ungrounded, operating temp. up to 250°C.