



THERMOCOUPLE MINIATURE with connection cable Type TER-PKbm-40

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

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

Model	Execution
I	Round ending
II	Straight ending
I/Exi	Intrinsic safe round ending
II/Exi	Intrinsic safe straight ending

THERMOCOUPLE SPECIFICATION

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

Characteristic
acc. PN-EN 60584-1

Protection tube

Diameter d [mm]	Material	Length L
Ø 4, Ø 5, Ø 6	1.4571	as per client request

Junction
ungrounded or grounded

Connection cable

Thermocouple	Configuration	Dimension	Type	Insulation	Temp. limits	Length L _k
Single	2 wire	Ø 3,2	L2GGD-J-0,22	glass fibre, screen	+400°C	as per client request
		Ø 3,3	L2GGD-K-0,22			
		Ø 3,2	L2TDT-J-0,22	teflon, screen, teflon	+260°C	
		Ø 3	L2TDT-K-0,22			
		Ø 4,2	L2SS-J-0,22	silicone, silicone	+180°C	
		Ø 3,5	L2SS-K-0,22			
		Ø 3,7	L2TS-J-0,22	teflon, silicone		
Ø 3,8	L2TS-K-0,22					
Double	4 wire	Ø 4	L4GGD-J-0,22	glass fibre, screen	+400°C	
		Ø 3,6	L4GGD-K-0,22			

NOTE: Non-standard models available

Ordering Information

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

A. Execution		A
	Round ending	I
	Straight ending	II
	Intrinsic safe round ending	I/Exi
	Intrinsic safe straight ending	II/Exi
B. Type of thermocouple		B
	1xFe-CuNi	1xJ
	2xFe-CuNi	2xJ
	1xNiCr-NiA	1xK
	2xNiCr-NiAl	2xK
C. Protection tube diameter d		C
	Ø 4 mm	4
	Ø 5 mm	5
	Ø 6 mm	6
D. Junction		D
	ungrounded	O
	grounded	Z
E. Protection tube length L		E
	L	specify in mm
F. Protection tube material		F
	1.4571	1.4571
G. Configuration and cable type		G
	2 wire (L2GGD-J-0,22)	2p-L2GGD-J
	2 wire (L2TDT-J-0,22)	2p-L2TDT-J
	2 wire (L2SS-J-0,22)	2p-L2SS-J
	2 wire (L2TS-J-0,22)	2p-L2TS-J
	4 wire (L4GGD-J-0,22)	4p-L4GGD-J
	2 wire (L2GGD-K-0,22)	2p-L2GGD-K
	2 wire (L2TDT-K-0,22)	2p-L2TDT-K
	2 wire (L2SS-K-0,22)	2p-L2SS-K
	2 wire (L2TS-K-0,22)	2p-L2TS-K
	4 wire (L4GGD-K-0,22)	4p-L4GGD-K
H. Cable length		H
	L _k	specify in mm
I. Operating temperature		I
	T	specify in °C

Ordering Example

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

stands for: **Thermocouple intrinsic safe with round ending, 1xFe-CuNi, protection tube diameter ϕ 5 mm, ungrounded, protection tube length L=50 mm, material 1.4571, configuration 2-wire, cable type L2GGD-J length L_k=3000 mm, operating temp. up to 250°C.**