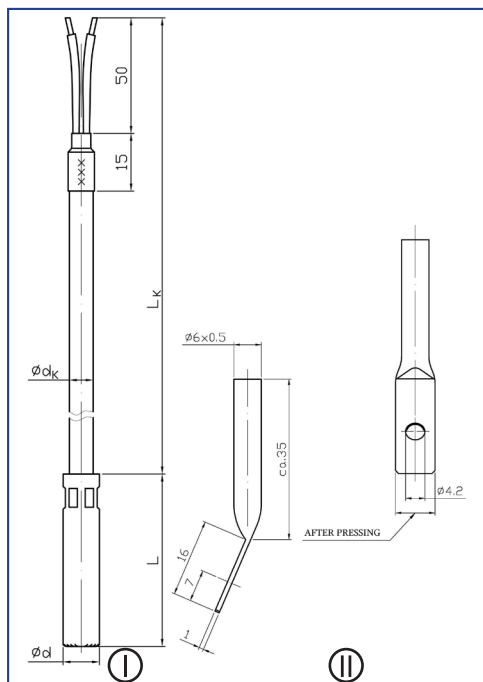


TOP-PKbm-59

Resistance Thermometer Pt100, Ni100 with connection cable



Resistance thermometer with cable type TOP-PKbm-59 has been designed for temperature monitoring of vibrating machine sub-assemblies, particularly bearings.

Made of alloy steel protection sleeve and special connecting cable allow temperature measurement up to +400°C (up to +180°C for Ni100) even in aggressive environment.

Type	Execution
TOP-PKbm-59	Basic ①
	With special mounting ②

Technical specification

RTD type	Version	Characteristic	Measuring range (standard/*shockproof)	Accuracy class	Max. sensor current	Lead wire config.
1xPt100	standard / *shockproof	acc. EN-60751	-50°C..+400°C / *(-50°C..+400°C)	B	8 mA	2, 3, 4 wire
2xPt100			-50°C..+400°C / *(-50°C..+300°C)	A	5 mA	3, 4 wire
1xNi100			-50°C..+250°C / *(0°C..+150°C)	1/3B (AA)	3 mA	

Protect. tube diam. d	Material acc. DIN/AISI	Max operating temp.	Tip design	Length L [mm]
Ø4, Ø5, Ø6	1.4571/316Ti	+400°C	basic	on request (minimum 25 mm)
			special	

Configuration	Dimension	Connection Cable Type	Insulation	Temp. limits
2 wire	Ø 2,9	L2GGD-2x0,22mm2	glass fibre, glass fibre, screen	+400°C
3, 4 wire	Ø 3,1	L4GGD-4x0,22mm2	glass fibre, glass fibre, screen	+400°C
2 wire	Ø 4,2	L2TS-2x0,34mm2	teflon, silicone	+180°C
3, 4 wire	Ø 4,3	L4TS-4x0,22mm2	teflon, silicone	+180°C
3, 4 wire	Ø 2,9	L4TT-4x0,22mm2	teflon, teflon	+260°C
2x 3 wire	Ø 3,8	L6TT-6x0,22mm2	teflon, teflon	+260°C
2 wire	Ø 4,3	L2SDS-2x0,25mm2	silicone, screen, silicone	+180°C
3, 4 wire	Ø 4,4	L4TDS-4x0,25mm2	teflon, screen, silicone	+180°C
3, 4 wire	Ø 4,0	L4TFDT-4x0,22mm2	teflon, film, screen, teflon	+260°C

Non-standard models available.

Ordering Information

TOP-PKbm-59	A	B	C	D	E	F	G	H	I	J
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A Execution	
I	Basic
II	With special mounting

B Resistor	
1xNi100	Single Ni100
1xPt100	Single Pt100
2xPt100	Double Pt100

C Class	
B	B
A	A
1/3B	1/3B (AA)

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

E Protection tube length L	
	specify in mm (min. 25 mm)

F Protection tube material	
1.4571	1.4571 / 316Ti

G Lead wire configuration and 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)
2p-L2TS	2 wire (L2TS-2x0,34mm ²)
3p-L4TS	3 wire (L4TS-4x0,22mm ²)
4p-L4TS	4 wire (L4TS-4x0,22mm ²)
3p-L4TT	3 wire (L4TT-4x0,22mm ²)
4p-L4TT	4 wire (L4TT-4x0,22mm ²)
2x3p-L6TT	2x3 wire (L6TT-6x0,22mm ²)
2p-L2SDS	2 wire (L2SDS-2x0,25mm ²)
3p-L4TDS	3 wire (L4TDS-4x0,25mm ²)
4p-L4TDS	4 wire (L4TDS-4x0,25mm ²)
3p-L4TFDT	3 wire (L4TFDT-4x0,22mm ²)
4p-L4TFDT	4 wire (L4TFDT-4x0,22mm ²)

H Cable length L_K	
	specify in mm

I Operating temperature	
	specify in °C

J Version	
Z	Standard (ceramic wire wound element)
W	Shockproof (thin-film element)

Ordering Example

TOP-PKbm-59-I-1xPt100-A-6-40-1.4571-3p-L4TFDT-2000-150-Z

stands for: Resistance thermometer, basic execution, resistor 1xPt100 class A, protection tube diameter $\varnothing 6$ and length L=40mm, material 1.4571, 3-wire lead configuration, cable with PTFE insulation with metal braid, length 2000 mm, operating temperature up to 150°C, standard sensor version (ceramic wire wound element).