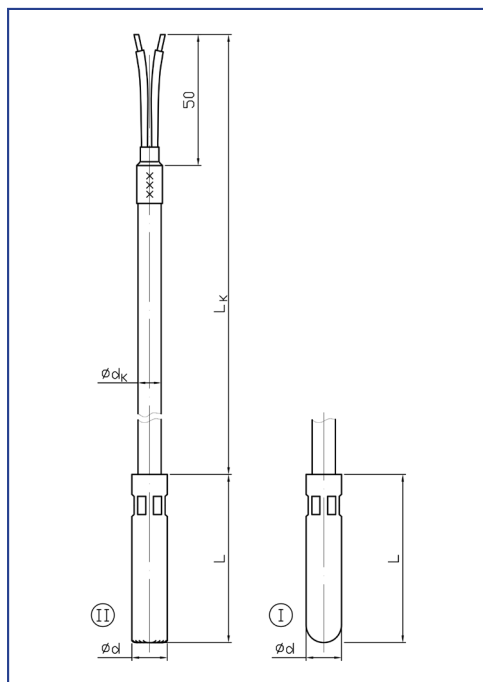


TOP-PKbm-32

Resistance Thermometer Pt100, Ni100 with connection cable

Miniature resistance thermometer TOP-PKbm-32 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	Version
TOP-PKbm-32	Basic - acc to catalog card	I or II
TOP-PKbm-32/ExiM1	Intrinsic for mining purposes – acc to Atex	
TOP-PKbm-32/Exi	Intrinsic – acc to Atex	II
TOP-PKbm-32/Exe	Increased safety – acc to Atex	

Technical specification

RTD type	Version	Characteristic	Measuring range (standard/*shockproof)	Accuracy class	Max. sensor current	Lead wire config.
1xPt100 2xPt100 1xNi100	standard / *shockproof	acc. EN-60751	-50°C..+400°C / *(-50°C..+400°C)	B	8 mA	2, 3, 4 wire
			-50°C..+400°C / *(-50°C..+300°C)	A	5 mA	3, 4 wire
			-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]
ø3, ø3,5, ø4, ø5, ø6	1.4571/316Ti	+400°C	round	on request (minimum 25 mm)
	M59/CuZn39Pb2		flat	

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-32	A	B	C	D	E	F	G	H	I	J
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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
I/Exe	Increased safety - round ending
II/Exe	Increased safety - flat ending

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
M59	M59 / CuZn39Pb2

G Lead wire configuration and cable type	
2p-L2GGD	2 wire (L2GGD-2x0,22mm2)
3p-L4GGD	3 wire (L4GGD-4x0,22mm2)
4p-L4GGD	4 wire (L4GGD-4x0,22mm2)
2p-L2TS	2 wire (L2TS-2x0,34mm2)
3p-L4TS	3 wire (L4TS-4x0,22mm2)
4p-L4TS	4 wire (L4TS-4x0,22mm2)
3p-L4TT	3 wire (L4TT-4x0,22mm2)
4p-L4TT	4 wire (L4TT-4x0,22mm2)
2x3p-L6TT	2x3 wire (L6TT-6x0,22mm2)
2p-L2SDS	2 wire (L2SDS-2x0,25mm2)
3p-L4TDS	3 wire (L4TDS-4x0,25mm2)
4p-L4TDS	4 wire (L4TDS-4x0,25mm2)
3p-L4TFDT	3 wire (L4TFDT-4x0,22mm2)
4p-L4TFDT	4 wire (L4TFDT-4x0,22mm2)

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-32-I/Exi-1xPt100-A-6-40-M59-3p-L4TFDT-2000-150-Z

stands for: Resistance thermometer, intrinsic safe, round ending, resistor 1xPt100 class A, protection tube diameter ø6mm and length L=40mm, material M59, 3-wire lead configuration, cable type L4TFDT, length 2000 mm, operating temperature up to 150°C, standard sensor version (ceramic wire wound element).