



RESISTANCE THERMOMETER MINIATURE Pt100, Ni100 with connection cable Type TOP-PKbm-32

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
TOP-PKbm-32	Basic
TOP-PKbm-32/Exi	Intrinsic safe

THERMOMETER SPECIFICATION

Temperature Resistor	Version	Characteristic	Measuring range	Accuracy class	Maximum sensor current	Lead wire configuration
1xPt100 2xPt100 1xNi100	standard shockproof	acc. PN-EN-60751	from -50°C to +400°C	B	8 mA	2 wire
			-50°C..+150°C	1/3 B DIN	2 mA	3, 4 wire

Protection tube

Material	Max. operating temp.	Diameter d [mm]	Ending type	Length L [mm]
1.4571	+ 400°C	Ø 4, Ø 5, Ø 6	round, straight	min. 25mm

Connection cable

Configuration	Diameter	Type	Insulation	Temp. limits	Length L _k
2 wire	Ø 2,9	L2GGD-2x0,22mm ²	glass fibre, screen	+400°C	as per client request
3, 4 wire	Ø 3,1	L4GGD-4x0,22mm ²			
2 wire	Ø 4,2	L4TS-2x0,34mm ²	teflon, silicone	+180°C	
3, 4 wire	Ø 4,3	L4TS-4x0,22mm ²			
3, 4 wire	Ø 2,9	L4TT-4x0,22mm ²	teflon, teflon	+260°C	
2, 3 wire	Ø 3,8	L6TT-6x0,22mm ²			
2 wire	Ø 4,3	L2SDS-2x0,25mm ²	silicone, screen, silicone	+180°C	
3, 4 wire	Ø 4,4	L4TDS-4x0,25mm ²			
3, 4 wire	Ø 4	L4TFDT-4x0,22mm ²	teflon, film, screen, teflon	+260°C	

NOTE: Non-standard models available

Ordering Information

TOP-PKbm-32 - A - B - C - D - E - F - G - H - I - J

A. Execution		A
	Basic	-
	Intrinsic safe	/Exi
B. Resistor		B
	Single Ni100	1xNi100
	Single Pt100	1xPt100
	Double Pt100	2xPt100
C. Class		C
	B	B
	A	A
	1/3 B DIN	1/3 B DIN
D. Protection tube diameter d		D
	Ø 4 x 0,5mm	4
	Ø 5 x 0,5mm	5
	Ø 6 x 0,5mm	6
E. Protection tube length		E
	L (min. 25mm)	specify in mm
F. Protection tube material		F
	1.4571	1.4571
G. Configuration and cable type		G
	2 wire(L2GGD)	2p-L2GGD
	3 wire (L4GGD)	3p-L4GGD
	4 wire (L4GGD)	4p-L4GGD
	2 wire (L2TS)	2p-L2TS
	3 wire (L4TS)	3p-L4TS
	4 wire (L4TS)	4p-L4TS
	3 wire (L4TT)	3p-L4TT
	4 wire (L4TT)	4p-L4TT
	2 wire (L6TT)	2p-L6TT
	3 wire (L6TT)	3p-L6TT
	2 wire (L2SDS)	2p-L2SDS
	3 wire (L4TDS)	3p-L4TDS
	4 wire (L4TDS)	4p-L4TDS
	3 wire (L4TFDT)	3p-L4TFDT
	4 wire (L4TFDT)	4p-L4TFDT
H. Cable length		H
	L _k	specify in mm
I. Thermometer operating temperature		I
	T	specify in °C
J. Sensor version		J
	standard	Z
	shockproof	W

Ordering Example

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

stands for : **Resistance thermometer, intrinsic safe, resistor 1xPt100 class A, protection tube size φ6x0.5 L=40mm, material M59, 3-wire lead configuration, cable with PTFE insulation with metal braid, length 2000 mm, operating temperature up to 150°C, standard sensor version.**