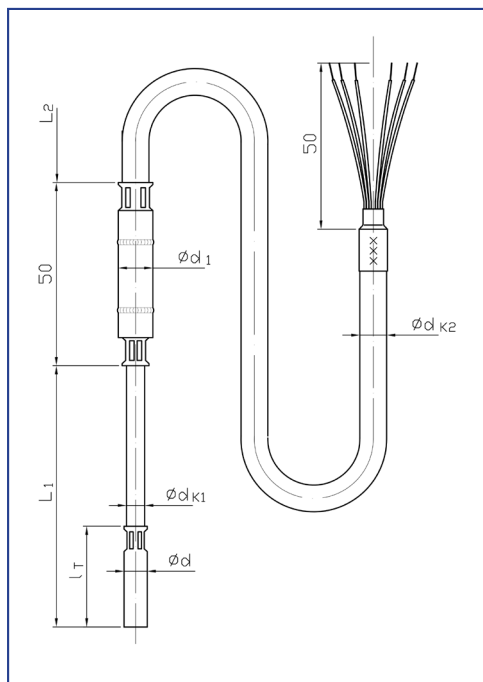


TOP-PKbm-60

Resistance Thermometer Pt100 Miniature Oil-proof



Resistance thermometer with cable TOP-PKbm-60 has been designed for temperature measurement of vibrating assemblies such as bearings and in autoclaves. In the cable connection there is a barrier, which forbids oil or other fluid leakage via cable.

Stainless steel protection tube and appropriate cable allows precise measurement even in corrosive chemical fluid and temperature up to +260°C applications.

Type	Execution
TOP-PKbm-60	Basic - acc to catalog card
TOP-PKbm-60/ExiM1	Intrinsic for mining purposes – acc to Atex
TOP-PKbm-60/Exi	Intrinsic – acc to Atex

Technical specification

RTD type	Version	Characteristic	Measuring range (standard/*shockproof)	Accuracy class	Max. sensor current
1xPt100 / 2xPt100	standard / *shockproof	acc. EN-60751	-50°C..+250°C / *(-50°C..+250°C)	B	1 mA
			-50°C..+250°C / *(0°C..+150°C)	A	
				1/3B (AA)	

Protection tube diam. d	Cable between protection tube and barrier		Connection Cable		Insulation	Ground wire	Temp. limits
	Diameter d _{k1}	Type	Diameter d _{k2}	Type			
ø3,2 mm	ø2,6 mm	L6TFDT-6x0,04 mm2	ø4,2 mm	L6TFDT-6x0,14 mm2	teflon, film, screen, teflon	-	+200°C
ø4,0 mm	ø3,7 mm	L4TDT-4x0,22 mm2	ø3,7 mm	L4TDT-4x0,22 mm2	teflon, screen, teflon	L1T-1x0,5 mm2	+200°C

Protection tube diam. d	Protection tube length L ₁	Length L ₁	Cable length L ₂
ø3,2 mm	11; 15; 18; 20; 50 mm	on request	on request
ø4,0 mm	15; 18; 20; 22 mm		

Non-standard models available.

Ordering Information

TOP-PKbm-60	A	B	C	D	E	F	G	H	I	J	K
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A Execution	
-	Basic
/ExiM1	Intrinsic safe for mining purposes
/Exi	Intrinsic safe

B Resistor	
1xPt100	Single Pt100
2xPt100	Double Pt100

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

D Protection tube diameter d	
3,2	d= 3,2 mm
4,0	d= 4,0 mm

E Protection tube length L_1	
	specify in mm

F Protection tube material	
	1.4571 / 316Ti

G Lead wire configuration and cable type	
1	cable L4TDT-4x0,22mm2 (2xPt100)
2	cable L4TDT-4x0,22mm2 (1xPt100)
3	cable L6TDT-4x0,04mm2 & L6TFDT-4x0,14mm2 (2xPt100)
4	cable L6TDT-4x0,04mm2 & L6Tf-DT-4x0,14mm2 (2xPt100) & ground wire

H Length L_1	
	specify in mm

I Cable length L_2	
	specify in mm

J Operating temperature	
	specify in °C

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

Ordering Example

TOP-PKbm-60-2xPt100-A-3,2-20-1.4571-4-500-1000-150-W

stands for: Resistance thermometer, basic execution, RTD 2xPt100 class A, protection tube diam. $\varnothing$ 3,2 mm, L_1 =20 mm, material 1.4571, cable L6TDT-4x0,04mm2 & L6TfDT-4x0,14mm2 and ground wire, length L_2 =500 mm and connection cable length L_3 =1000 mm, operating temperature 150°C, shockproof (thin-film element).