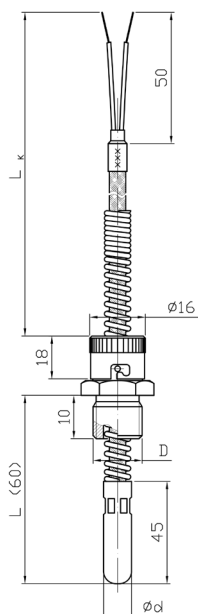


TOP-PZKbm-23

Resistance Thermometer Pt100 with bayonet coupling

Clasp lock resistance thermometer TOP-PZKbm-23 has been designed for temperature measurement of bearings, injection moulding press cylinders, moulding and vulcanization forms, heat plates using Resistance Temperature Detector Pt100.

Clasp lock mounting features easy and quick installation, replace and dismantling of the thermometer.



Type	Execution
TOP-PZKbm-23	Basic - acc to catalog card
TOP-PZKbm-23/ExiM1	Intrinsic for mining purposes – acc to Atex
TOP-PZKbm-23/Exi	Intrinsic – acc to Atex
TOP-PZKbm-23/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	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	

Thermometer protect. tube diam. d	Material acc. DIN/AISI	Length L [mm]	Process connection thread D	Material acc. DIN/AISI
Ø4, Ø5, Ø6	1.4571/316Ti MO59/CuZn39Pb2	on request	on request (e.g. M14x1,5, M16x1,5, M20x1,5, G1/2")	1.4571/316Ti

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
3, 4 wire	Ø 3,2	L4TT-4x0,22mm2	teflon, teflon	+260°C
3, 4 wire	Ø 4,4	L4TDS-4x0,25mm2	teflon, screen, silicone	+180°C

Non-standard models available.

Ordering Information

TOP-PZKbm-23	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
/Exe	Increased safety

B Resistor	
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 material	
1.4571	1.4571 / 316Ti
M59	MO59/CuZn39Pb2
	specify other material

F Process connection thread D	
	specify type of thread

G Sensor length L	
	specify in mm

H 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)
3p-L4TT	3 wire (L4TT-4x0,22mm2)
4p-L4TT	4 wire (L4TT-4x0,22mm2)
3p-L4TDS	3 wire (L4TDS-4x0,25mm2)
4p-L4TDS	4 wire (L4TDS-4x0,25mm2)

I Cable length L_k	
	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-PZKbm-23-I-1xPt100-A-4-M59-M12x1-80-3p-L4TT-2000-Z

stands for: Clasp lock resistance thermometer with round ending, with resistor 1xPt100 class A, protection tube diameter ø 4 mm, material M59, thread M12x1, length L=80mm, configuration 3-wire, cable type L4TT length L_k=2000 mm, standard sensor version (ceramic wire wound element).