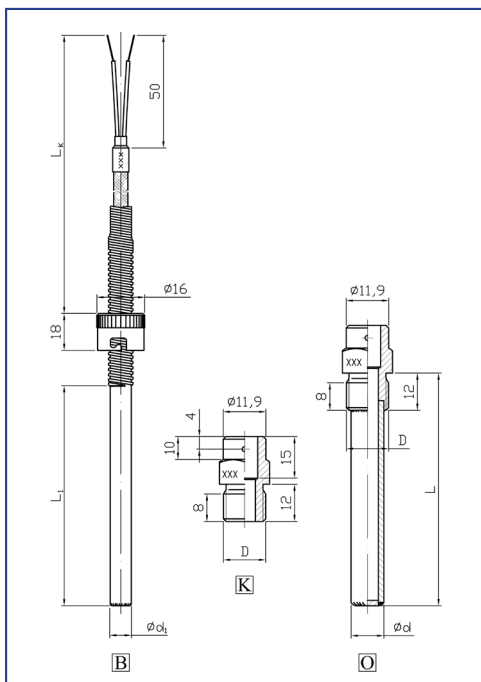


TOP-PZKbm-22

Resistance Thermometer Pt100 with bayonet coupling

Resistance thermometer Pt100 TOP-PZKbm-22 with flexible cable and additional process connection fitting or protection tube has been designed for temperature measurement of movement parts of machinery, press, injection casts, bearings and sub-assemblies of difficult access. Additional process connection fitting or thermowell make easy assembling to tag point and bayonet coupling allows fast thermometer replacement without non-measure intervals.



Type	Execution	Version
TOP-PZKbm-22	Basic - acc to catalog card	Ⓑ
TOP-PZKbm-22/ExiM1	Intrinsic for mining purposes – acc to Atex	Ⓚ
TOP-PZKbm-22/Exi	Intrinsic – acc to Atex	Ⓞ

Technical specification

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

Thermometer protect. tube diam. d ₁	Material acc. DIN/AISI	Length L ₁ [mm]	Process connection thread D	Material acc. DIN/AISI
ø4, ø5, ø6	1.4571/316Ti	on request	on request (e.g. M14x1.5. M16x1.5. M20x1.5. G1/2")	1.4571/316Ti

Additional Thermowell diam. d	Material acc. DIN/AISI	Length L [mm]
ø10, ø11, ø12	1.4571/316Ti	on request

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 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-PZKbm-22	A	B	C	D	E	F	G	H	I	J	K	L	M	N
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A Execution	
B	Basic
K	With process connection fitting
O	With additional thermowell
B/ExiM1	Intrinsic safe for mining purposes – Basic
K/ExiM1	Intrinsic safe for mining purposes – with fitting
O/ExiM1	Intrinsic safe for mining purposes – with thermowell
B/Exi	Intrinsic safe - Basic
K/Exi	Intrinsic safe - with fitting
O/Exi	Intrinsic safe - with thermowell

B Resistor	
1xPt100	Single Pt100
2xPt100	Double Pt100

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

D Thermometer protection tube diameter d_1	
4	$d_1 = 4$ mm
5	$d_1 = 5$ mm
6	$d_1 = 6$ mm

E Thermometer protection tube length L_1	
	specify in mm

F Thermometer protection tube material	
1.4571	1.4571 / 316Ti

G Additional thermowell diameter d (option)	
10	d= 10 mm
11	d= 11 mm
12	d= 12 mm

H Additional thermowell length L (option)	
	specify in mm

I Additional thermowell material (option)	
1.4571	1.4571 / 316Ti
	specify other material

J Process connection thread D (option)	
	specify type of thread

K 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-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)

L Cable length L_k	
	specify in mm

M Operating temperature	
	specify in °C

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

Ordering Example

TOP-PZKbm-22-B/Exi-1xPt100-A-6-100-1.4571-100-3p-L4TDS-1500-Z

stands for: Resistance thermometer in basic execution without fitting neither thermowell, intrinsic safe, resistor 1xPt100 class A, protection tube diameter $d_1 = \varnothing 6$, length $L_1 = 100$ mm, material 1.4571, configuration 3-wire, cable L4TDS length $L_k = 1500$ mm, standard sensor version (ceramic wire wound element).