



P1K0.232.6W.B.010.U.S



Platinum sensor with inversed, 90° bent Ni/Pt wires



For high temperatures



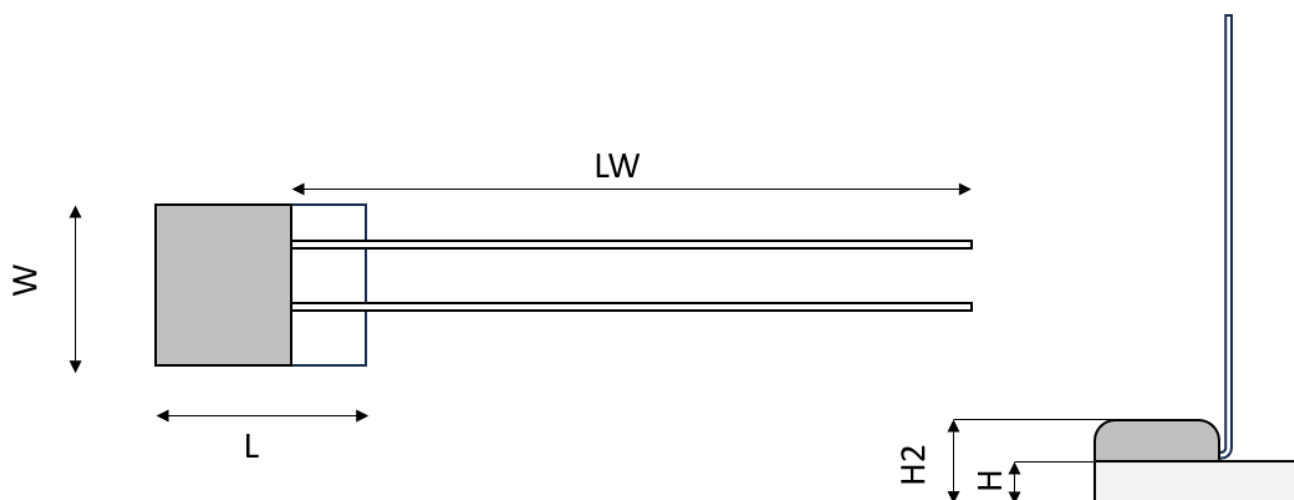
Benefits & characteristics



- Excellent long-term stability
- Low self-heating
- Inversed contacts, 90° bent
- Fast response time
- Metallized backside available
- Customer-specific sensor available upon request



Illustration ¹⁾



¹⁾ for actual size see dimensions in order information

H = Substrate Hight

H2 =Hight

W = Width

L = Length

LW = Wire length

Dimension tolerances:

W ± 0.2 mm, L ± 0.2 mm, H ± 0.1 mm, H2 ± 0.3 mm,
LW (up to 30 mm) ± 1 mm

Technical data

Operating temperature range:	-200 °C to +600 °C	
Nominal resistance:*	1000 Ω at 0 °C	
Characteristics curve:*	3850 ppm/K	
Long-term stability:	< 0.04 % at 1000 h at maximal operating temperature	
Tolerance class: * (dependent on temperature range)	IEC 60751 F0.3	iST reference B
Connection:*	Ni/Pt wire, Ø 0.2 mm, 10 mm long, inversed contacts, wire 90° bent	
Alternative wire construction:*	Extended wires	
Recommended applied current:	0.3 mA at 1000 Ω	

1)Self-heating must be considered

* Customer-specific alternatives available

Order Information 2I (Cu/Ag-wire, AWG34, PTFE-insulated black)

Nominal Resistance	Size	Dimensions (L x W x H / H2 in mm) L ± 0.2 mm, W ± 0.2 mm, H ± 0.1 mm, H2 ± 0.3 mm	Class*	Order code	Product name (secondary reference)	Wire length in mm	Special
1000 Ω	232	2.3 x 2.0 x 0.65 / 1.1 mm	F0.3 (class B)	155768	P1K0.232.6W.B.010.U.S	10	90° bent inverted wires

Additional Documents

Application Note

Document name: APT_E

Order Information

Platinum Sensor - Secondary reference

Material									
P	=	Platinum							
TCR									
	=	Pt 3840 ppm/K	G	=	Pt 3911 ppm/K				
U	=	Pt 3750 ppm/K	W	=	Pt 3850 ppm/K	(extended operating temperature range in class A			
Resistance in Ω at 0°C									
Size in mm									
Operating temperature range									
1	=	-50 °C to + 150 °C			6	=	-200°C to + 600 °C		
2	=	-50 °C to + 200 °C			7	=	-200 °C to + 750 °C		
3	=	-200 °C to + 300 °C			8	=	-200 °C to + 850 °C		
4	=	-200 °C to + 400 °C			10	=	-70 °C to + 1000 °C		
Connections									
S	=	SIL			FK	=	Flat wire customer specific		
I	=	Insulated wire			SW	=	Perpendicular wire		
K	=	Extended wire			L	=	Insulated stranded wire		
W	=	Wire			E	=	Enameled Cu-wire		
FW	=	Flat wire			SE	=	Perpendicular enameled Cu-wire		
Tolerance class									
A	=	IEC 60751 F0.15			K	=	Customer-specific		
B	=	IEC 60751 F0.3			P	=	Pair		
C	=	IEC 60751 F0.6			G	=	Group		
Y	=	IEC 60751 F0.1							
Wire length in mm									
Special									
T	=	Substrate thickness 0.25 mm			M	=	Metallized backside		
D	=	Substrate thickness 0.38 mm			U	=	Inverted welding		
R	=	Round housing			S	=	Special		
W	=	Sintered powder							
P		1K0.	232.	6	W.	B.	010.	U.	S



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