

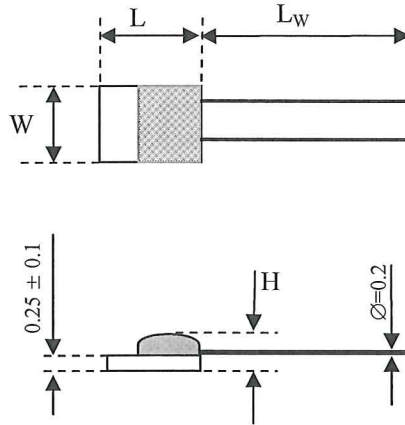


INNOVATIVE SENSOR TECHNOLOGY

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IST AG	Platinum thin film RTD			6W
Drawing No.	Sensor Type	Rev.	Date	Page
Z1110.12.08 en	P.161.6W	A	02.08.2012	1/2

Dimensions [mm]:



TEMP. COEFFICIENT:	3850 ppm/K			
TEMPERATURE RANGE:	-200 to 600°C			
TEMPERATURE DEPENDENCE OF RESISTIVITY:	according to DIN EN 60751: -50 to 0°C $R(t) = R_0(1 + A \cdot t + B \cdot t^2 + C \cdot [t - 100] t^3)$ 0 to 300°C $R(t) = R_0(1 + A \cdot t + B \cdot t^2)$ $A = 3.9083 \cdot 10^{-3} \cdot ^\circ\text{C}^{-1}$, $B = -5.775 \cdot 10^{-7} \cdot ^\circ\text{C}^{-2}$, $C = -4.183 \cdot 10^{-12} \cdot ^\circ\text{C}^{-4}$ R_0 = resistance value in Ohm at 0°C t = temperature in accordance with ITS90			
DIMENSIONS (mm):	L 1.6 ± 0.2	W 1.2 ± 0.2	H 0.8 ± 0.2	L _w 3, 7, 10: ± 1 30, 50, 100: ± 5
LEAD WIRES:	Pt/Ni-wire, Ø 0.2mm, length: L _w (see next page for available lengths)			
LONG TERM STABILITY	max. 0.04% after 1000 hrs at +600°C			
MEASURING CURRENT (recommended)	100 Ω: 1.0mA 200 Ω: 0.5mA 500 Ω: 0.5mA 1'000 Ω: 0.3mA (self heating has to be considered)			



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Standard configurations

R ₀ : nominal resistance	F0.1 (class Y) -50°C to 150°C	F0.15 (class A) -90°C to 300°C	F0.3 (class B) -200°C to 600°C	F0.6 (class C) -200°C to 600°C
100 Ω, L _w =3 Order no.	P0K1.161.6W.Y.003 010.01187	P0K1.161.6W.A.003 010.01779	P0K1.161.6W.B.003 010.01780	P0K1.161.6W.C.003 010.01508
100 Ω, L _w =7 Order no.		P0K1.161.6W.A.007 010.02195	P0K1.161.6W.B.007 010.02196	P0K1.161.6W.C.007 010.02197
100 Ω, L _w =10 Order no.	P0K1.161.6W.Y.010 010.00638	P0K1.161.6W.A.010 010.00064	P0K1.161.6W.B.010 010.00062	P0K1.161.6W.C.010 010.01222
100 Ω, L _w =30 Order no.			P0K1.161.6W.B.030 010.01180	P0K1.161.6W.C.030 010.01223
100 Ω, L _w =50 Order no.			P0K1.161.6W.B.050 010.02682	
200 Ω, L _w =10 Order no.		P0K2.161.6W.A.010 010.02561	P0K2.161.6W.B.010 010.02001	P0K2.161.6W.C.010 010.02007
500 Ω, L _w =10 Order no.	P0K5.161.6W.Y.010 010.00182	P0K5.161.6W.A.010 010.00181	P0K5.161.6W.B.010 010.00180	P0K5.161.6W.C.010 010.01406
1000 Ω, L _w =10 Order no.	P1K0.161.6W.Y.010 010.00222	P1K0.161.6W.A.010 010.00221	P1K0.161.6W.B.010 010.00220	P1K0.161.6W.C.010 010.01472
1000 Ω, L _w =100 Order no.		P1K0.161.6W.A.100 010.01831	P1K0.161.6W.B.100 010.01832	P1K0.161.6W.C.100 010.01833

High tolerance classes

R ₀ : nominal resistance	1/10 DIN EN 60751 (class K) 25°C to 55°C	1/5 DIN EN 60751 (class K) -20°C to 120°C
100 Ω, L _w =10 Order no.	P0K1.161.6W.K.010 010.00756	P0K1.161.6W.K.010 010.00638

Note: other nominal resistance, class and wire length on request

	Title	Name	Signature	Date
DRAWN	R&D	F. Klammsteiner		02.08.2012
APPROVED	R&D Manager	J. Polak		02.08.2012
QS	QS Manager	A. Polak		02.08.2012