





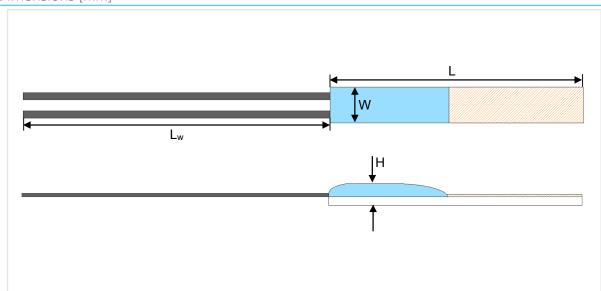




TEMPERATURE SENSOR

Order number	Product name	Rev.	Release date	Document number
See order specifications	P_K3505.4W007.S	1.1	02.05.2023	DBTC_0004_EN

Dimensions [mm]



General Specifications

Nominal resistance:	See order specifications		
TCR:	3850 ppm/K		
Temperature range:	-50°C to +400°C		
Tolerance/class:	See order specifications		
Temperature dependence of resistivity:	According to IEC: $ -50 \text{ to} + 0^{\circ}\text{C} \qquad R(T) = R_{0} \cdot (1 + A^{*}T + B^{*}T^{2} + C^{*}[T-100]^{*}T^{3}) $ $ 0 \text{ to} + 400^{\circ}\text{C} \qquad R(T) = R_{0} \cdot (1 + A^{*}T + B^{*}T^{2}) $ $ A = 3.9083^{*}10^{-3} \cdot {^{\circ}\text{C}^{-1}}, \ B = -5.775^{*}10^{-7} \cdot {^{\circ}\text{C}^{-2}}, $ $ C = -4.183^{*}10^{-12} \cdot {^{\circ}\text{C}^{-4}} $ $ R_{0} = \text{resistance value in Ohm at 0°C} $ $ T = \text{temperature in accordance with ITS90} $		



physical. chemical. biological.











Dimensions [mm]:	L 3.5 ±0.2	W 0.5 ±0.05	H 0.5 ^{-0.1} , +0.06	LW 7 ±1
Lead wires:	Ag-wire, Ø 0.10 mm			
Long term stability	0.04% after 1000h at +400°C			
Measuring current: (recommended)	See order specifications			
Special:	Fit into 0.8mm diameter			

Order Information

Order number	Reference	R ₀	Tolerance	Measuring current (self-heating must be considered)
154976	P0K1.3505.4W.A.007.S	100 Ω	IEC 60751 F0.15	0.3 mA
154978	P0K1.3505.4W.B.007.S	100 Ω	IEC 60751 F0.3	0.3 mA
154975	P1K0.3505.4W.A.007.S	1000 Ω	IEC 60751 F0.15	0.1 mA
154977	P1K0.3505.4W.B.007.S	1000 Ω	IEC 60751 F0.3	0.1 mA

