

physical. chemical. biological.





## 850 °C Series Platinum sensor with wires For very high temperatures







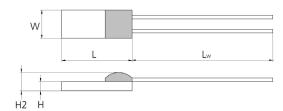


#### Benefits & Characteristics

- Excellent long-term stability
- Low self-heating
- Fast response time

- Vibration and temperature shock resistant
- Simple interchangeability
- Customer-specific sensor available upon request

#### Illustration<sup>1)</sup>



**Dimension Tolerances:** W ±0.2 mm, L ±0.2 mm, H ±0.1 mm, H2 ±0.3 mm,  $L_{w}$  (up to 30 mm)  $\pm 1$  mm

1) For actual size, see dimensions

#### Technical Data

Operating temperature range:	-200 °C to +850 °C		
Nominal resistance:*	100 Ω at 0 °C		
	200 Ω at 0 °C		
	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):*		Innovative Sensor Technology IST AG reference	
	IEC 60751 F0.15	А	
	IEC 60751 F0.3	В	
	IEC 60751 F0.6	C	
	IEC 60751 F0.1	Υ	
Connection:*	Pt-wire, $\varnothing$ 0.2 mm (solderable, weldable, crimpable, brazeable)		
Recommended applied current:1)	Max. 1 mA		
<sup>1)</sup> Self-heating must be considered			
Other alternatives:*	Substrate thickness		

<sup>\*</sup> Customer-specific alternatives available



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### Order Information - 8W (Pt-wire, Ø 0.2 mm)

Size	Dimensions (L x W x H / H2; L <sub>w</sub> in mm)	F0.1 (class Y)	F0.15 (class A)	F0.3 (class B)		
Nominal resistance: 100 Ω at 0 °C						
516 Order code	5.0 x 1.6 x 0.65 / 1.0; 7.0	Upon request	Upon request	P0K1.516.8W.B.007 010.01901		
102 Order code	10.0 x 2.0 x 0.65 / 1.0; 10.0	Upon request	Upon request	P0K1.102.8W.B.010 010.00158		
Nominal resistance: 200 $\Omega$ at 0 $^{\circ}$ C						
420 Order code	3.85 x 1.9 x 0.65 / 1.0; 7.0	Upon request	Upon request	P0K2.420.8W.B.007 010.02797		
Nominal resistance: 1000 $\Omega$ at 0 °C						
516 Order code	5.0 x 1.6 x 0.65 / 1.0; 7.0	Upon request	Upon request	P1K0.516.8W.B.007 010.02003		
Additional Documents						
			Document name:			

ATP\_E

Application Note:



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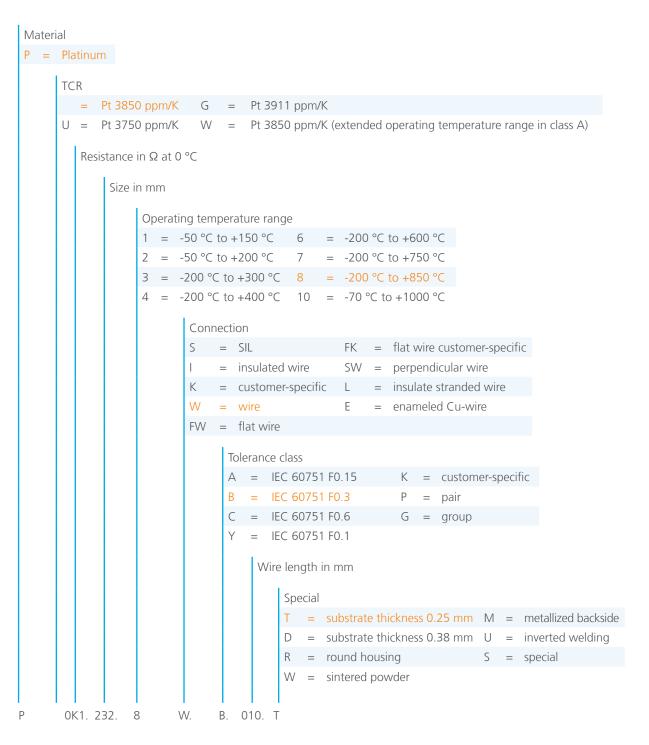
# **Order Information**















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