

Platinum Resistance Temperature Detector

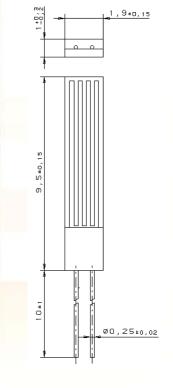
L 1020

L series PRTDs are designed for large volume applications where long term stability, interchangeability and accuracy over a large temperature range are vital. Typical applications are Automotive, White Goods, HVAC, Energy Management, Medical and Industrial equipment.

Nominal Resistance R ₀	Tolerance	Order No. Plastic bag
100 Ohm at 0°C	DIN EN 60751, class B DIN EN 60751, class A DIN EN 60751, class 1/3 DIN	32 207 708 32 207 579 32 207 585
500 Ohm at 0°C	DIN EN 60751, class B	32 207 709
1000 Ohm at 0°C	DIN EN 60751, class B DIN EN 60751, class A DIN EN 60751, class 1/3 DIN	32 207 710 32 207 581 32 207 586

The measuring point for the nominal resistance is defined at 8 mm from the end of the sensor body.

Specification	DIN EN 60751 (according to IEC 751)	1		/
Temperature range	-50°C to + 400°C (continuous operation) Tolerance class B: -50 °C to + 400 °C Tolerance class A: -50 °C to + 300 °C Tolerance class 1/3 DIN: 0 °C to + 150 °C	- -	7/0-	0 0
Temperature coefficient	TCR = 3850 ppm/K		+	Innnn
Leads	AgPd			
Long-term stability	max. R ₀ -drift 0.04% after 1000 h at 400 °C			
Vibration resistance	at least 40 g acceleration at 10 to 2000 Hz, depends on installation	c + - - -	5	
Shock resistance	at least 100 g acceleration with 8ms half sine wave, depends on installation	0		
Environmental conditions	unhoused for dry environments only			
Insulation resistance	> 100 M Ω at 20 °C; > 2 M Ω at 500 °C		+	
Self heating	0.2 K/mW at 0 °C	į	-	
Response time	water current (v = 0.4 m/s): $t_{0.5}$ = 0.12 s; $t_{0.9}$ = 0.30 s air stream (v = 2 m/s): $t_{0.5}$ = 6.0 s; $t_{0.9}$ = 20.0 s	-		
Measuring current	100 Ω : 0.3 to 1.0 mA 500 Ω : 0.1 to 0.7 mA 1000 Ω : 0.1 to 0.3 mA (self heating has to be considered)			



on request.

Other tolerances, values of resistance and wire lengths are available

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