Heraeus

Platinum Resistance Temperature Detector

MN- 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 R0	Toler ance DIN EN 60751 1996-07	Tolerance DIN EN 60751 2009-05	Order Number Plastic Bag
100 Ohm at 0°C	Class A	F 0.15	32207 759
	Class B	F 0.3	32207 758
	Class 2B	F 0.6	32207 757
500 Ohm at 0℃	Class A	F 0.15	32 207 761
	Class B	F 0.3	32 207 756
	Class 2B	F 0.6	32 207 755
1000 Ohm at 0°C	Class A	F 0.15	32207 754
	Class B	F 0.3	32207 753
	Class 2B	F 0.6	32207 751

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

Specification	DIN EN 60751 (according	to IEC 751)		
Temperature range	Tolerance Class A: Tolerance Class B: Tolerance Class 2B:	-50°C to +300°C -70°C to +500°C -70°C to +500°C	2,1:0,2	
Incore L	(temporary use at Cl. B and 2B to 550°C possibl e)			3.0 9.0 9.0
Temperature coefficient	TCR = 3850 ppm/K			ie i
Leads	Ni- wire Recommend connection to Welding and Brazing	echnology:		
Lead lengths (L)	10mm ±1mm			
Ambient conditions	Unhoused for dry environments only			
Insulation resistance	> 100 MΩ at 20℃; > 2 M Ω	⊇ at 500℃	i	
Self heating	0.4 K/mW at 0℃		ļ.	
Response time	water current (v= 0.4m/s): air stream (v= 2m/s):	$\begin{array}{l} t_{0.5}=0.05s\\ t_{0.9}=0.15s\\ t_{0.5}=3.0s\\ t_{0.9}=10.0s \end{array}$	Ø0,22±0,02	↓
Measuring current	100Ω:0.3 to 1.0mA 500Ω:0.1 to 0.7mA 1000Ω:0.1 bis 0.3mA (self heating has to be cor	nsidered)		
Application advice	 To avoid shear forces o the connection wires may The bending may only tak element, using a bending Other nominal values, la coefficients on request. Due to a production-cau the leads, soft-soldering is 	be neither split or bent. e place 3 mm after the or splitting tool. engths and temperature used oxide layer coating	R	RoHS onform
Note	Other tolerances, values c on request.	of resistance are available		

We reserve the right to make alterations and technical data printed. All technical data serves as a guideline and does not guarantee particular properties to any products.

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