Heraeus

Platinum Resistance Temperature Detector

MN 222

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	Tolerance 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°C	Class B	F 0.3	32207 756
	Class 2B	F 0.6	32207 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: (temporary use at Cl. B and	-50°C to +300°C -70°C to +500°C -70°C to +500°C 1 2B to 550°C possible)	2,1:0,2		
Temperature coefficient Leads	TCR = 3850 ppm/K Ni- wire Recommend connection te Welding, crimping and Braz				
Lead lengths (L)	10mm ±1mm				
Ambient conditions Insulation resistance	Unhoused for dry environments only > 100 MΩ at 20°C; > 2 MΩ at 500°C				
Self heating	0.4 K/mW at 0°C			μų	↓ li
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*0,0)2 <u></u>	
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 cons	sidered)			
Application advice	 To avoid shear forces on the connection wires may be The bending may only take element, using a bending o 2. Other nominal values, le coefficients on request. Due to a production-caus the leads, soft-soldering is 	e neither split or bent. place 3 mm after the r splitting tool. ngths and temperature sed oxide layer coating		RoHS	
Note	Other tolerances, values of on request.	resistance are available			

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