

## Platinum Resistance Temperature Detector

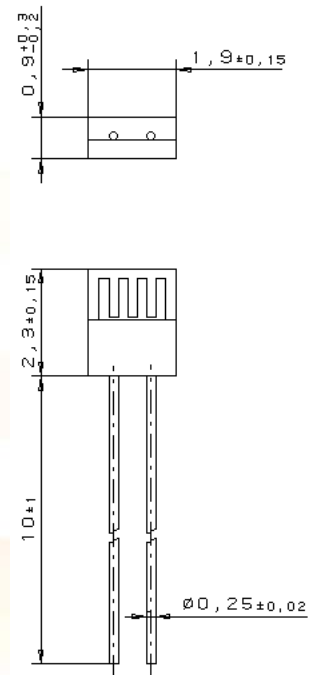
## MH 220

Mseries 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	32 207 420
	DIN EN 60751, class A	32 207 577
	DIN EN 60751, class 1/3 DIN	32 207 578

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

<b>Specification</b>	DIN EN 60751 (according to IEC 751)
<b>Temperature range</b>	-70°C to 600°C (continuous operation) Tolerance class B: - 70°C to + 600°C Tolerance class A: -50°C to + 300°C Tolerance class 1/3 DIN: 0°C to + 150°C
<b>Temperature coefficient</b>	TCR = 3850 ppm/K
<b>Leads</b>	AuPd
<b>Long-term stability</b>	max. $R_0$ -drift 0.04% after 1000 h at 600°C
<b>Vibration resistance</b>	at least 40 g acceleration at 10 to 2000 Hz, depends on installation
<b>Shock resistance</b>	at least 100 g acceleration with 8ms half sine wave, depends on installation
<b>Environmental conditions</b>	unhoused for dry environments only
<b>Insulation resistance</b>	> 100 M $\Omega$ at 20°C; > 2 M $\Omega$ at 500°C
<b>Self heating</b>	0.4 K/mW at 0°C
<b>Response time</b>	water current ( $v = 0.4$ m/s): $t_{0.5} = 0.06$ s; $t_{0.9} = 0.20$ s air stream ( $v = 2$ m/s): $t_{0.5} = 3.0$ s; $t_{0.9} = 13.0$ s
<b>Measuring current</b>	100 $\Omega$ : 0.3 to 1.0 mA (self heating has to be considered)
<b>Note</b>	Other tolerances, values of resistance and wire lengths are available on request.



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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