

Platinum Resistance Temperature Detector

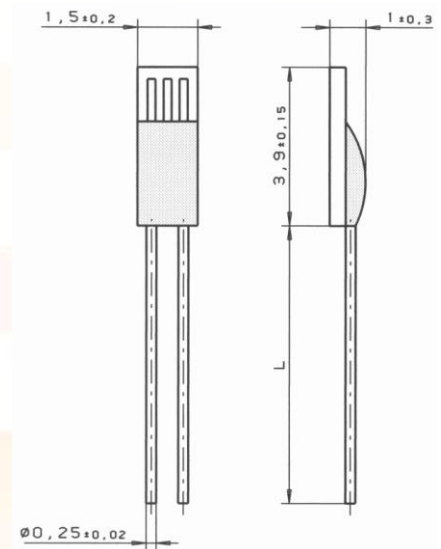
MH 416

M- 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 Class B | F 0.15 F 0.3 | 32 207 574 32 207 701 |

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

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|---------------------------------|--|--|
| Specification | DIN EN 60751 (according to IEC 751) | |
| Temperature range | -70°C to +600°C (continuous operation) Tolerance Class B: -70°C to +600°C Tolerance Class A: -50°C to +300°C | |
| Temperature coefficient | TC = 3850 ppm/K | |
| Leads | AuPd- wire | |
| Lead lengths (L) | 10mm ±1mm | |
| Long-term stability | max. R ₀ -drift 0.04% after 1000h at 600°C | |
| Vibration resistance | at least 40g acceleration at 10 to 2000 Hz, depends on installation | |
| Shock resistance | at least 100g acceleration with 8ms half sine wave, depends on installation | |
| Environmental conditions | unhoused for dry environments only | |
| Insulation resistance | > 100 MΩ at 20°C; > 2 MΩ at 500°C | |
| Self heating | 0.4 K/mW at 0°C | |
| Response time | water current (v= 0.4m/s): | t _{0.5} = 0.07s t _{0.9} = 0.25s |
| | air stream (v= 2m/s): | t _{0.5} = 3.2s t _{0.9} = 14.0s |
| Measuring current | 100Ω: 0.3 to 1.0mA (self heating has to be considered) | |
| Note | Other tolerances, values of resistance and wire lengths are available on request. | |



For brazing and soldering of the leads only brazing/solder alloys should be used which are specified for brazing/soldering to gold alloys.

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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