

## Platinum temperature sensor in thin-film technology

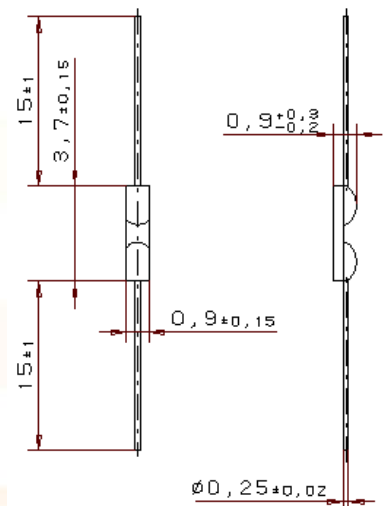
## MH 410 ax

MH 410 ax platinum temperature sensors have axial leads. They are characterized by their small design, short contact times, long-term stability, excellent precision over a wide temperature range and compatibility. They are typically used in the automotive, white goods, HVAC and energy generation industries as well as in medical and industrial appliances and machinery.

Nominal Resistance $R_0$	Tolerance	Order No. Plastic bag
100 Ohm at 0°C	DIN EN 60751, class B	32 207 613

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
<b>Temperature range</b>	-70°C to + 600°C (continuous operation) Tolerance class B: - 70 °C to + 600 °C
<b>Temperature coefficient</b>	TCR = 3850 ppm/K
<b>Leads</b>	AuPd
<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 8 ms half sine wave, depends on installation
<b>Impact resistance</b>	At least 100 g acceleration with 8 ms half sine wave
<b>Ambient conditions</b>	Use unprotected only in dry environments
<b>Insulation resistance</b>	> 100 MΩ at 20°C; > 2 MΩ at 500°C
<b>Self heating</b>	0.4 K/mW at 0°C
<b>Contact time</b>	Water current ( $v = 0.4 \text{ m/s}$ ): $t_{0.5} = 0.06 \text{ s}$ ; $t_{0.9} = 0.20 \text{ s}$ Air flow ( $v = 2 \text{ m/s}$ ): $t_{0.5} = 3.0 \text{ s}$ ; $t_{0.9} = 13.0 \text{ s}$
<b>Measuring current</b>	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.

Heraeus Sensor Technology GmbH, Reinhard-Heraeus-Ring 23, 63801 Kleinostheim, Germany  
Phone: +49 (0) 6181/35-8098, Fax: +49 (0)6181/35-8101, E-Mail: info.HSND@Heraeus.com, Web:www.heraeus-sensor-technology.com