

Platinum temperature sensor in thin-film technology

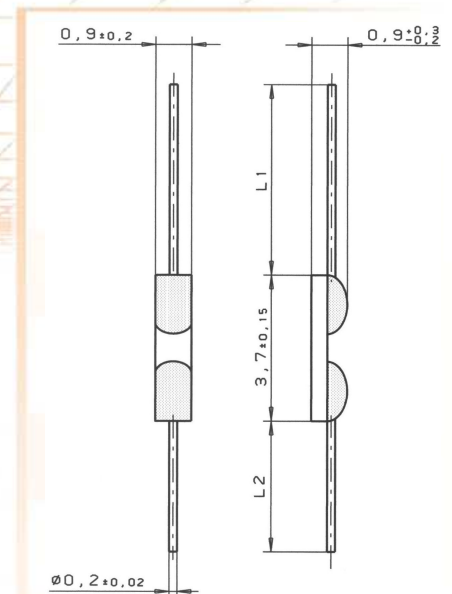
M 410 ax

M 410 ax platinum temperature sensors have axial leads. They are characterized by their small design, short contact times, long-term stability and 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. Blister reel |
|--------------------------|-----------------------|------------------------|
| 100 Ohm at 0°C | DIN EN 60751, class B | 32 208 209 |

The measuring point for the nominal resistance is defined at 8 / 13 mm from the end of the sensor

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|--------------------------------|--|--|
| Specification | DIN EN 60751 | |
| Temperature range | -70°C to +500°C (continuous operation) (temporary use to 550 °C possible) Tolerance class B: - 70 °C to + 500 °C | |
| Temperature coefficient | TCR = 3850 ppm/K | |
| Leads | Pt clad Ni-wire | |
| Lead lengths (L) | L1: 15 mm +1 mm ; L2: 10 mm +1 mm | |
| Vibration resistance | At least 40 g acceleration at 10 to 2000 Hz, depends on installation | |
| Shock resistance | At least 100 g acceleration with 8 ms half sine wave, depends on installation | |
| Impact resistance | At least 100 g acceleration with 8 ms half sine wave | |
| Ambient conditions | Use unprotected only in dry environments | |
| Insulation resistance | > 100 MΩ at 20°C; > 2 MΩ at 500°C | |
| Self heating | 0.4 K/mW at 0°C | |
| Contact time | Water current (v = 0.4 m/s): | $t_{0.5} = 0.06$ s $t_{0.9} = 0.17$ s |
| | Air flow (v = 2 m/s): | $t_{0.5} = 3.0$ s $t_{0.9} = 10.0$ s |
| Measuring current | 0.3 to 1.0 mA (self heating has to be considered) | |
| Note | 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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Status: 10/2007, HSTUSA 10/09