

Platinum Resistance Temperature Detector

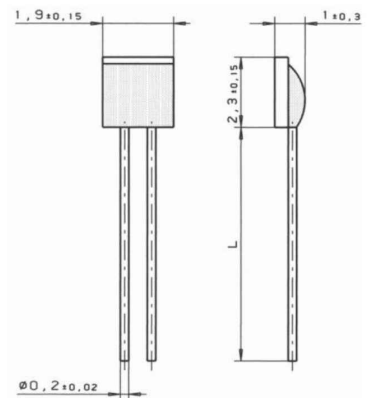
HL 220

HL 220 type platinum sensors are characterised by long-term stability, precision over a broad temperature range and compatibility. The main feature is the small design. They are used in particular for applications with high consumption volumes, e.g. white goods and heating power.

| Nominal Resistance R0 | Tolerance DIN EN 60751 1996-07 | Tolerance DIN EN 60751 2009-05 | Order Number Plastic Box |
|-----------------------|--------------------------------------|--------------------------------------|-----------------------------|
| 1000 Ohm at 0°C | Class 2B | F 0.6 | 32 208 779 |

The measuring point for the nominal resistance is defined at 6mm from the end of the sensor body.

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|---------------------------------|---|--|
| Specification | DIN EN 60751 | |
| Temperature range | -70°C up to +750°C Tolerance Class 2B: -70°C up to +750°C | |
| Temperature coefficient | TC = 3850 ppm/K | |
| Leads | Pt coated NiCr- wire | |
| Lead lengths (L) | 8mm ±1mm | |
| Long-term tests | R ₀ - Drift after 1000h at 750°C (energized) < 0,24% (Unhoused chip in standard atmosphere.) | |
| Environmental conditions | Unhoused for dry environmental only, above 500°C no reducing atmosphere, free air admission is necessary. Assembly can influence the long term stability! | |
| 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 | |
| Insulation resistance | > 100 MΩ at 20 °C; > 1 MΩ at 650 °C | |
| Self heating | 0.2 K/mW | |
| Response time | Water current (v= 0.4m/s): | t _{0,5} = 0.05s t _{0,9} = 0.14s |
| | Air stream (v= 2m/s): | t _{0,5} = 3.0s t _{0,9} = 10s |
| Measuring current | 0.1 to 1mA (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.