

Platinum Resistance Temperature Detector

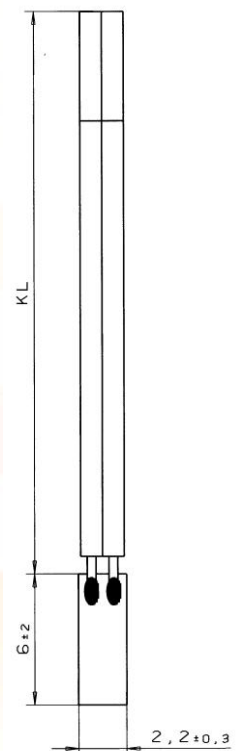
L 622 DBC

L series PRTDs, type L 622 DBC are designed for large volume applications where longterm stability, interchange ability and accuracy over a large temperature range are vital. The high resistance value of 1000 Ohm generates a high signal yield. 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 Box | Lead Length KL |
|-----------------------|--------------------------------|--------------------------------|--------------------------|----------------|
| 1000 Ohm at 0°C | Class B | F 0.3 | 32 200 018 | 160mm |
| 1000 Ohm at 0°C | Class B | F 0.3 | 32 200 023 | 250mm |

The measuring point for the nominal resistance is situated on the connections of the sensor body

| | | |
|---------------------------------|---|--|
| Specification | DIN EN 60751 | |
| Temperature range | -40°C to +160°C Tolerance Class B: -40°C up to +160°C | |
| Temperature coefficient | TC = 3850 ppm/K | |
| Leads | Cord, silicon isolated AWG 30 | |
| Wire lengths (KL) | 70 to 500mm, customer connection engraved | |
| Long- term stability | max. R ₀ -Drift 0.04 % after 1500 h at 160°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 | max. 80% rel. humidity; durability against non-conductive media | |
| Self heating | 0.4 K/mW at 0°C | |
| Response time | water current (v= 0.4m/s): | t _{0,5} = 0.20s t _{0,9} = 0.30s |
| | air stream(v= 2m/s): | t _{0,5} = 3.4s t _{0,9} = 11.0s |
| Measuring current | 1000Ω: 0.1 to 0.3mA (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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