Platinum Resistance Temperature Detector L 220

L 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 Box
100 Ohm at 0°C	Class 1/3 B	F 0,1	32 207 588
	Class A	F 0,15	32 207 584
	Class B	F 0,3	32 207 400
1000 Ohm at 0°C	Class B	F 0,3	32 207 733

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

Specification DIN EN 60751 (according to IEC 751)

Temperature range -50°C to +400°C (continuous operation)
Tolerance Class B: -50°C to +400°C
Tolerance Class A: -50°C to +300°C
Tolerance Class 1/3 B: 0°C to +150°C

Temperature coefficient TCR = 3850 ppm/K

Leads AgPd- wire

Lead lengths (L) 10mm ±1mm

Long-term stability max. R_0-drift 0.04% after 1000 h at 400°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

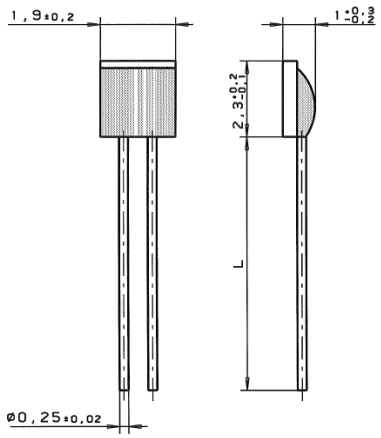
Insulation resistance > 100 MΩ at 20°C; > 2 MΩ at 400°C

Self heating 0.4 K/mW at 0°C

Response time
water current (v= 0.4 m/s): $t_{0.5}$ = 0.06s, $t_{0.9}$ = 0.20s
air stream (v= 2 m/s): $t_{0.5}$ = 3.0s, $t_{0.9}$ = 13.0s

Measuring current
100Ω: 0.3 to 1.0mA
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.



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Platinum Resistance Temperature Detector L 220 P

L 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 Box	Order Number Vacuum bag
100 Ohm at 0°C	Class B	F 0.3	32 207 302	32 207 608

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

Specification DIN EN 60751 (according to IEC 751)

Temperature range -50°C to +400°C (continuous operation)
Tolerance class B: -50°C to +400°C

Temperature coefficient TC = 3850 ppm/K

Leads AgPd- wire

Lead lengths (L) 10mm ±1mm

Long-term stability max. R_0-drift 0.04% after 1000h at 400°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 400°C

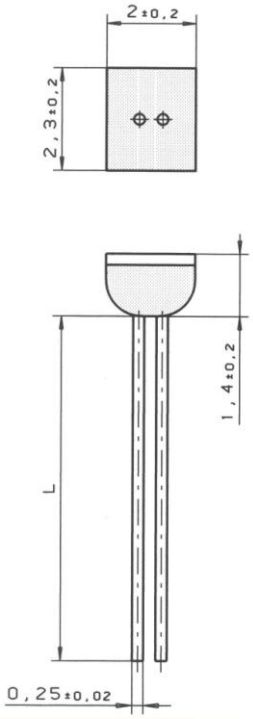
Self heating 0.4 K/mW at 0°C

Response time

water current (v= 0.4m/s):	$t_{0.5}$ = 0.20s
	$t_{0.9}$ = 0.30s
air stream (v= 2m/s):	$t_{0.5}$ = 3.0s
	$t_{0.9}$ = 9.0s

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.



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Platinum temperature sensor in thin-film technology L 416

L-series platinum temperature sensors are characterized by long-term stability, excellent precision over a wide temperature range and compatibility. They are used particularly for applications with high consumption volumes, typically in the automotive, white goods, HVAC and energy generation industries as well as in medical and industrial appliances and machinery.

Nominal Resistance R0	Tolerance DIN EN 60751 1996-07	Tolerance DIN EN 60751 2009-05	Order Number Plastic Box
100 Ohm at 0°C	Class A Class B	F 0.15 F 0.3	32 207 583 32 207 440

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

Specification DIN EN 60751

Temperature range -50°C to +400°C (continuous operation)
Tolerance Class B: -50°C to +400°C
Tolerance Class A: -50°C to +300°C

Temperature coefficient TC = 3850 ppm/K

Leads AgPd- wire

Lead lengths (L) 10mm ±1mm

Long-term stability Max. R0 drift 0.04% after 1000h at 400°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

Ambient conditions Use unprotected only in dry environments

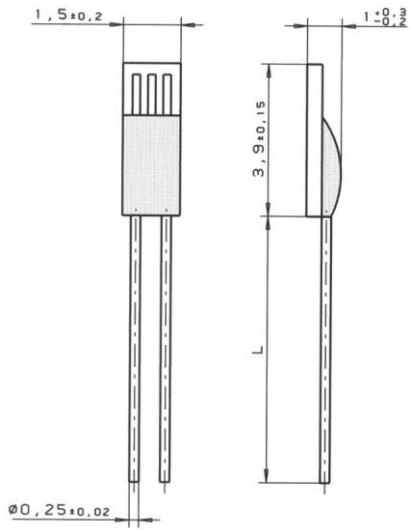
Insulation resistance > 100 MΩ at 20°C; > 2 MΩ at 400°C

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 flow (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.



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Platinum Resistance Temperature Detector L 420

L 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 Box
100 Ohm at 0°C	Class B	F 0.3	32 207 702
500 Ohm at 0°C	Class B	F 0.3	32 207 703
1000 Ohm at 0°C	Class 1/3 B Class A Class B	F 0.1 F 0.15 F 0.3	32 207 587 32 207 582 32 207 704

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

Specification DIN EN 60751 (according to IEC 751)

Temperature range -50°C to + 400°C (continuous operation)
Tolerance Class B: -50°C to +400°C
Tolerance Class A: -50°C to +300°C
Tolerance Class 1/3 B: 0°C to +150°C

Temperature coefficient TC = 3850 ppm/K

Leads AgPd- wire

Lead lengths (L) 10mm ±1mm

Long-term stability max. R0-drift 0.04% after 1000h at 400°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

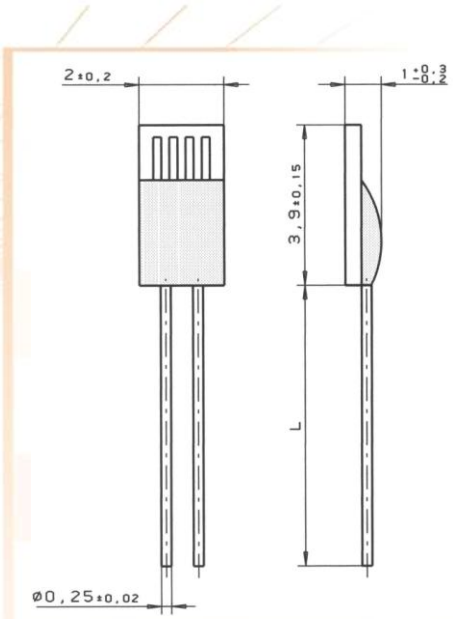
Insulation resistance > 100 MΩ at 20°C; > 2 MΩ at 500°C

Self heating 0.3 K/mW at 0°C

Response time
water current (v= 0.4m/s): $t_{0.5}$ = 0.08s, $t_{0.9}$ = 0.25s
air stream (v= 2m/s): $t_{0.5}$ = 3.5s, $t_{0.9}$ = 15.0s

Measuring current
100Ω: 0.3 bis 1.0 mA
500Ω: 0.1 bis 0.7 mA
1000Ω: 0.1 bis 0.3 mA
(self heating has to be considered)

Note Other tolerances, values of resistance and wire lengths are available on request.



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Platinum Resistance Temperature Detector L 1020

L 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 Box
100 Ohm at 0°C	Class 1/3 B Class A Class B	F 0,1 F 0,15 F 0,3	32 207 585 32 207 579 32 207 708
1000 Ohm at 0°C	Class 1/3 B Class A Class B	F 0,1 F 0,15 F 0,3	32 207 586 32 207 581 32 207 710

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

Specification DIN EN 60751 (according to IEC 751)

Temperature range -50°C to +400°C (continuous operation)
Tolerance Class B: -50°C to +400°C
Tolerance Class A: -50°C to +300°C
Tolerance Class 1/3B: 0°C to +150°C

Temperature coefficient TC = 3850 ppm/K

Leads AgPd- wire

Lead lengths (L) 10mm ±1mm

Long- term stability max. R_0-drift 0.04% after 1000h at 400 °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

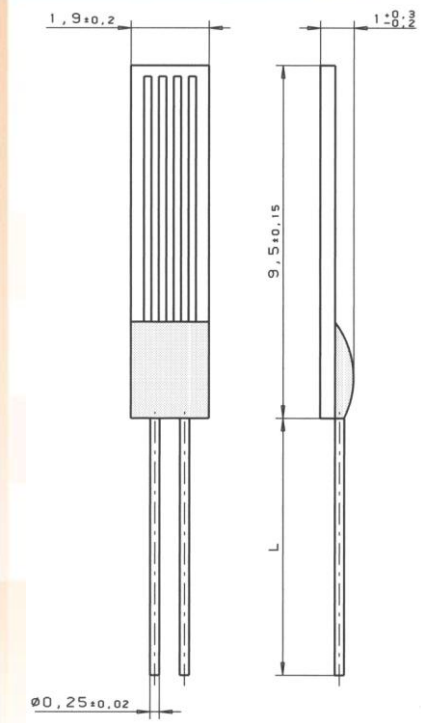
Insulation resistance > 100 MΩ at 20°C; > 2 MΩ at 400°C

Self heating 0.2 K/mW at 0°C

Response time water current (v = 0.4m/s): $t_{0.5}$ = 0.12s, $t_{0.9}$ = 0.30s
air stream (v = 2m/s): $t_{0.5}$ = 6.0s, $t_{0.9}$ = 20.0s

Measuring current 100Ω: 0.3 to 1.0mA
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.



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Platinum Resistance Temperature Detector LN 222

L 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℃	Class A Class B	F 0,15 F 0,3	32 207 771 32 207 770
1000 Ohm at 0℃	Class A Class B	F 0,15 F 0,3	32 207 773 32 207 772

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

Specification DIN EN 60751 (according to IEC 751)

Temperature range -50℃ to +400℃ (continuous operation)
Tolerance Class B: -50℃ to +400℃
Tolerance Class A: -50℃ to +300℃

Temperature coefficient TCR = 3850 ppm/K

Leads Ni- silvercoated
Recommend connection technology:
Soft soldering and Crimping

Lead lengths (L) 10mm ±1mm

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

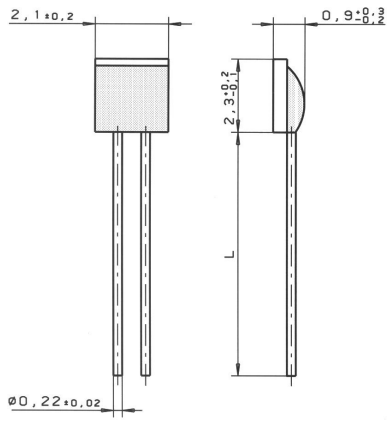
Insulation resistance > 100 MΩ at 20℃; > 2 MΩ at 400℃

Self heating 0.4 K/mW at 0℃

Response time
water current (v= 0.4m/s): $t_{0.5}$ = 0.05s, $t_{0.9}$ = 0.15s
air stream (v= 2m/s): $t_{0.5}$ = 3.0s, $t_{0.9}$ = 10.0s

Measuring current 100Ω: 0.3 to 1.0mA
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.



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