

M 213

M 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<br>Resistance R0 | <b>Tolerance</b> DIN EN 60751 1996-07 | <b>Tolerance</b><br>DIN EN 60751<br>2009-05 | Order Number<br>Plastic Box            |
|--------------------------|---------------------------------------|---|--|
| 100 Ohm at 0°C           | Class 1/3 B<br>Class A<br>Class B     | F 0.1<br>F 0.15<br>F 0.3                    | 32 207 692<br>32 207 691<br>32 207 690 |
| 1000 Ohm at 0°C          | Class B                               | F 0.3                                       | 32 207 695                             |

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 -70°C to +500°C (continuous operation)

(temporary use to 550 °C possible)
Tolerance Class B: -70°C to

Tolerance Class B: -70°C to +500°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 Pt clad Ni- wire

Recommended connection technology:

Welding, Crimping and Brazing

Lead lengths (L) 10mm ±1mm

Long-term stability max. R<sub>0</sub>-drift 0.04% after 1000h at 500°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 M $\Omega$  at 20°C; > 2 M $\Omega$  at 500°C

Self heating 0.6 K/mW at 0°C

**Response time** water current (v= 0.4m/s):  $t_{0.5} = 0.04$ s

 $\begin{array}{c} t_{0.9} = 0.12s \\ \text{air stream (v= 2m/s):} \\ t_{0.5} = 2.2s \end{array}$ 

 $t_{0.9} = 7.0s$ 

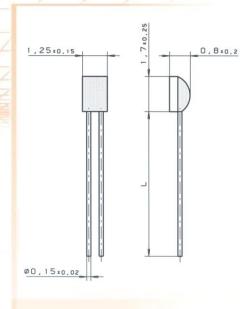
**Measuring current**  $100\Omega$ : 0.3 to 1.0 mA

1000Ω: 0.1 to 0.3 mA

(self heating has to be considered)

**Note** Other tolerances, values of resistance and wire

lengths are available on request.









M 220

M 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<br>Resistance R0 | <b>Tolerance</b> DIN EN 60751 1996-07 | <b>Tolerance</b><br>DIN EN 60751<br>2009-05 | Order Number<br>Plastic Bag | Order Number<br>Blister reel           |
|--------------------------|---------------------------------------|---|-----------------------------|--|
| 100 Ohm at 0°C           | Class 1/3 B<br>Class A<br>Class B     | F 0.1<br>F 0.15<br>F 0.3                    | 32 208 715<br>32 208 714    | 32 208 466<br>32 208 465<br>32 208 440 |

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

DIN EN 60751 (according to IEC 751) **Specification** 

Temperature range -70°C to +500°C (continuous operation)

(temporary use to 550 °C possible)

Tolerance Class B: -70°C to +500°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 Pt clad Ni- wire

Recommend connection technology:

Welding, Crimping and Brazing

Lead lengths (L) 10mm ±1mm

Long-term stability max. R<sub>0</sub>-drift 0.04% after 1000h at 500°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

> 100 M $\Omega$  at 20°C; > 2 M $\Omega$  at 500°C Insulation resistance

Self heating 0.4 K/mW at 0°C

 $t_{0.5} = 0.05s$ Response time water current (v= 0.4m/s):

air stream (v= 2m/s):

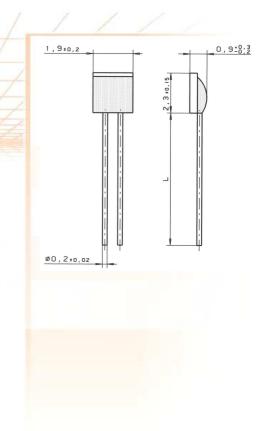
 $t_{0.9} = 0.15s$  $t_{0.5} = 3.0s$  $t_{0.9} = 10.0s$ 

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.









0,9:8:3



#### **Platinum Resistance Temperature Detector**

M-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<br>Resistance R0 | <b>Toler ance</b> DIN EN 60751 1996-07 | <b>Tolerance</b><br>DIN EN 60751<br>2009-05 | Order Number<br>Plastic Bag |
|--------------------------|--|---|-----------------------------|
| 100 Ohm at 0℃            | Class 1/3 B                            | F 0.1                                       | 32 208 551                  |
|                          | Class A                                | F 0.15                                      | 32 208 550                  |
|                          | Class B                                | F 0.3                                       | 32 208 548                  |
| 500 Ohm at 0℃            | Class B                                | F 0.3                                       | 32 208 706                  |
| 1000 Ohm at 0℃           | Class 1/3 B                            | F 0.1                                       | 32 208 707                  |
|                          | Class A                                | F 0.15                                      | 32 208 572                  |
|                          | Class B                                | F 0.3                                       | 32 208 571                  |

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 -70℃ to +500℃ (continuous operation)

(temporary use to 550℃ possible)

Tolerance Class B: -70℃ to +500℃ Tolerance Class A: -50℃ to +300℃ Tolerance Class 1/3 B: 0℃ to +150℃

Temperature coefficient TCR = 3850 ppm/K

Leads Pt clad Ni- wire

Recommend connection technology: Welding, Crimping and Brazing

Lead lengths (L) 10mm ±1mm

Long-term stability max. R₀-drift 0.04% after 1000h at 500℃

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 M $\Omega$  at 20°C; > 2 M $\Omega$  at 500°C

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**  $100\Omega$ : 0.3 to 1.0mA

 $500\Omega$ : 0.1 to 0.7mA 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.



2,1±0,2





## Platinum temperature sensor in thin-film technology

M 310

M-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<br>Resistance R0 | <b>Tolerance</b> DIN EN 60751 1996-07 | <b>Tolerance</b><br>DIN EN 60751<br>2009-05 | Order Number<br>Plastic Box | Order Number<br>Plastic Bag |
|--------------------------|---------------------------------------|---|-----------------------------|-----------------------------|
| 100 Ohm at 0°C           | Class B                               | F 0.3                                       | 32 208 721                  | 50 142 52                   |
| 1000 Ohm at 0°C          | Class B                               | F 0.3                                       | 32 208 723                  | 50 142 53                   |
| 100 Ohm at 0°C           | Class A                               | F 0,15                                      | 32 208 725                  | 50 142 54                   |
| 1000 Ohm at 0°C          | Class A                               | F 0,15                                      | 32 208 727                  | 50 142 55                   |

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

Specification **DIN EN 60751** 

-70°C to +500°C (continuous operation) Temperature range

(temporary use to 550°C possible) Tolerance Class B: -70°C up to +500°C Tolerance Class A: -50°C up to +300°C

Temperature coefficient TCR = 3850 ppm/K

Leads Pt clad Ni- wire

> Recommend connection technology: Welding, Crimping and Brazing

Lead lengths (L) 10mm ±1mm

Long-term stability Max. R<sub>0</sub> drift 0.04% after 1000h at 500°C

Vibration resistance At least 40g acceleration at 10 to 2000 Hz,

depends on installation

Shock resistance At least 100g acceleration with 8 ms half sine

wave, depends on installation

**Ambient conditions** Use unprotected only in dry environments

Insulation resistance > 100 M $\Omega$  at 20°C; > 2 M $\Omega$  at 500°C

Self heating 0.4 K/mW at 0°C

Response time Water current (v= 0.4m/s):  $t_{0.5} = 0.04s$ 

 $t_{0.9} = 0.12s$ Air flow (v= 2m/s):  $t_{0.5} = 2.5s$ 

 $t_{0.9} = 8.0s$ 

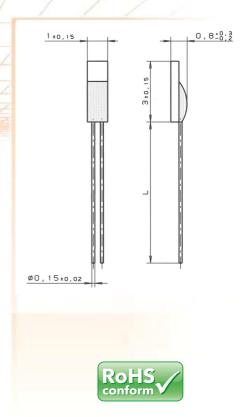
Measuring current 100Ω: 0.3 to 1.0 mA

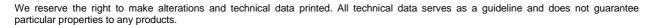
1000Ω: 0.1 to 0.3 mA

(self heating has to be considered)

Note Other tolerances, values of resistance and wire

lengths are available on request.









## Platinum temperature sensor in thin-film technology

M 416

M-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<br>Resistance R0 | <b>Tolerance</b> DIN EN 60751 1996-07 | <b>Tolerance</b> DIN EN 60751 2009-05 | Order Number<br>Plastic Bag | Order Number<br>Blister reel |
|--------------------------|---------------------------------------|---------------------------------------|-----------------------------|------------------------------|
| 100 Ohm at 0°C           | Class 1/3 B                           | F 0.1                                 | 32 208 217                  | 32 208 701                   |
|                          | Class A                               | F 0.15                                | 32 208 216                  | 32 208 279                   |
|                          | Class B                               | F 0.3                                 | 32 208 213                  | 32 208 278                   |

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

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 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 Pt clad Ni- wire

Recommend connection technology: Welding, Crimping and Brazing

Lead lengths (L) 10mm ±1mm

**Long-term stability** Max. R<sub>0</sub> drift 0.04% after 1000h at 500°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 M $\Omega$  at 20°C; > 2 M $\Omega$  at 500°C

Self heating 0.4 K/mW at 0°C

**Response time** Water current (v= 0.4m/s):  $t_{0.5} = 0.06$ s

Air flow (v=2m/s):

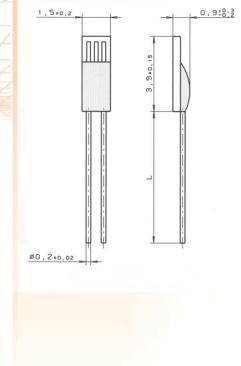
 $t_{0.9} = 0.18s$   $t_{0.5} = 3.1s$  $t_{0.9} = 10.5s$ 

**Measuring current**  $100\Omega$ : 0.3 to 1.0mA

(self heating has to be considered)

**Note** Other tolerances, values of resistance and wire

lengths are available on request.









M 422

M series PRTDs are especially robust and 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<br>Resistance R0 | <b>Tolerance</b> DIN EN 60751 1996-07 | <b>Tolerance</b> DIN EN 60751 2009-05 | Order Number<br>Plastic Bag            | Order Number<br>Blister reel |
|--------------------------|---------------------------------------|---------------------------------------|--|------------------------------|
| 100 Ohm at 0°C           | Class 1/3 B                           | F 0.1                                 | 32 208 500                             | 32 208 522                   |
|                          | Class A                               | F 0.15                                | 32 208 498                             | 32 208 521                   |
|                          | Class B                               | F 0.3                                 | 32 208 392                             | 32 208 520                   |
| 500 Ohm at 0°C           | Class 1/3 B                           | F 0.1                                 | 32 208 502                             | 32 208 525                   |
|                          | Class A                               | F 0.15                                | 32 208 501                             | 32 208 524                   |
|                          | Class B                               | F 0.3                                 | 32 208 414                             | 32 208 523                   |
| 1000 Ohm at 0°C          | Class 1/3 B<br>Class A<br>Class B     | F 0.1<br>F 0.15<br>F 0.3              | 32 208 537<br>32 208 503<br>32 208 499 | 32 208 527<br>32 208 526     |

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 -70°C to +500°C (continuous operation)

(temporary use to 550°C possible)
Tolerance Class B: -70°C to +500°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; 3750 ppm/K available

on request

Leads Pt clad Ni- wire

Recommend connection technology: Welding, Crimping and Brazing

Lead lengths (L) 10mm ±1mm

Longterm stability max. R<sub>0</sub>-drift 0.04% after 1000 h at 500 °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**  $> 100 \text{ M}\Omega \text{ at } 20^{\circ}\text{C}; > 2 \text{ M}\Omega \text{ at } 500^{\circ}\text{C}$ 

**Self heating** 0.3 K/mW at 0°C

Measuring current

**Response time** water current (v= 0.4m/s):  $t_{0.5} = 0.07$ s

 $t_{0.9} = 0.20s$  $t_{0.5} = 3.2s$ 

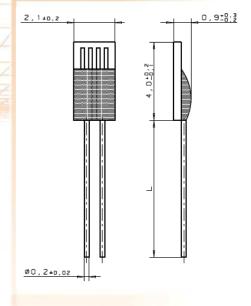
air stream (v= 2m/s):  $t_{0.5} = 3.2s$  $t_{0.9} = 11s$ 

> 100 $\Omega$ : 0.3 to 1.0mA 500 $\Omega$ : 0.1 to 0.7mA 1000 $\Omega$ : 0.1 to 0.3mA

(self heating has to be considered)

**Note** Other tolerances, values of resistance and wire lengths are

available on request.









M 620

M series PRTDs are designed for large volume applications where long term stability, interchangeability and accuracy over a large temperature range are vital. Due to the high resistance values of  $1000 \Omega$  and  $2000 \Omega$  the signal gain is excellent. Typical applications are found in Automotive, White goods, HVAC, Medical and Industrial equipment.

| Nominal<br>Resistance R0 | <b>Tolerance</b><br>DIN EN 60751<br>1996-07 | Tolerance<br>DIN EN 60751<br>2009-05 | Order Number<br>Plastic Bag |
|--------------------------|---|--------------------------------------|-----------------------------|
| 2000 Ohm at 0°C          | Class B                                     | F 0.3                                | 32 208 541                  |

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

**Spezification** DIN EN 60751 (according to IEC 751)

**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

Recommend connection technology:
Welding, Crimping and Brazing

Lead lengths (L) 10mm ±1mm

Longterm stability max. R<sub>0</sub>-drift 0.04% after 1000h at 500 °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 M $\Omega$  at 20°C; > 2 M $\Omega$  at 500°C

**Self heating** 0.3 K/mW at 0°C

**Response time** water current (v= 0.4m/s):  $t_{0.5} = 0.08$ s

 $t_{0.9} = 0.25s$ 

air stream (v= 2m/s):  $t_{0.5} = 3.7s$ 

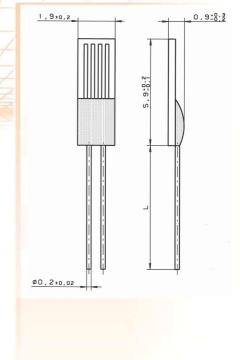
 $t_{0.9} = 11.5s$ 

**Measuring current** 2000 $\Omega$ : 0.1 to 0,3mA

(self heating has to be considered)

**Note** Other tolerances, values of resistance and wire

lengths are available on request.









M 1020

M 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<br>Resistance R0 | <b>Tolerance</b><br>DIN EN 60751<br>1996-07 | <b>Tolerance</b> DIN EN 60751 2009-05 | Order Number<br>Plastic Bag | Order Number<br>Blister reel           |
|--------------------------|---|---------------------------------------|-----------------------------|--|
| 100 Ohm at 0°C           | Class 1/3 B<br>Class A<br>Class B           | F 0.1<br>F 0.15<br>F 0.3              | 32 208 180                  | 32 208 428<br>32 208 429<br>32 208 280 |
| 500 Ohm at 0°C           | Class B                                     | F 0.3                                 | 32 208 201                  | 32 208 285                             |
| 1000 Ohm at 0°C          | Class 1/3 B<br>Class A<br>Class B           | F 0.1<br>F 0.15<br>F 0.3              | 32 208 191                  | 32 208 483<br>32 208 439<br>32 208 286 |

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 -70°C to +500°C (continuous operation)

(temporary use to 550°C possible)

Tolerance Class B: -70°C to +500°C Tolerance Class A: -50°C to +300°C Tolerance Class 1/3 DIN: 0°C to +150°C

Temperature coefficient TC = 3850 ppm/K

Leads Pt clad Ni- wire

Recommend connection technology:

Welding, Crimping and Brazing

Lead lengths (L) 10mm ±1 mm

**Long-term stability** max. R<sub>0</sub>-drift 0.04% after 1000h at 500°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 M $\Omega$  at 20°C; > 2 M $\Omega$  at 500°C

**Self heating** 0.2 K/mW at 0°C

**Response time** water current (v= 0.4m/s):  $t_{0.5} = 0.10$ s

 $t_{0.9} = 0.30s$ 

air stream (v= 2m/s):  $t_{0.5} = 4.0s$ 

 $t_{0.9} = 12.0s$ 

**Measuring current** 100 $\Omega$ : 0.3 to 1.0mA

500 $\Omega$ : 0.1 to 0.7mA 1000 $\Omega$ : 0.1 to 0.3mA

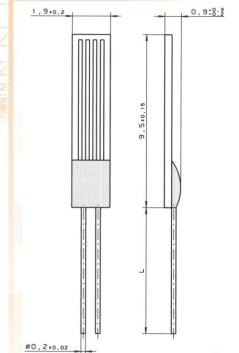
(self heating has to be considered)

Note Other tolerances, values of resistance and wire lengths are

available on request.

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**MN 222** 

MN- 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<br>Resistance R0 | <b>Toler ance</b> DIN EN 60751 1996-07 | <b>Tolerance</b><br>DIN EN 60751<br>2009-05 | Order Number<br>Plastic Bag |
|--------------------------|--|---|-----------------------------|
| 100 Ohm at 0°C           | Class A                                | F 0.15                                      | 32 207 759                  |
|                          | Class B                                | F 0.3                                       | 32 207 758                  |
|                          | Class 2B                               | F 0.6                                       | 32 207 757                  |
| 500 Ohm at 0°C           | Class B                                | F 0.3                                       | 32 207 756                  |
|                          | Class 2B                               | F 0.6                                       | 32 207 755                  |
| 1000 Ohm at 0°C          | Class A                                | F 0.15                                      | 32 207 754                  |
|                          | Class B                                | F 0.3                                       | 32 207 753                  |
|                          | Class 2B                               | F 0.6                                       | 32 207 751                  |

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 Tolerance Class A: -50°C to +300°C Tolerance Class B: -70°C to +500°C 0,9:8:3 2,1±0,2 Tolerance Class 2B: -70°C to +500°C (temporary use at Cl. B and 2B to 550°C possible) Temperature coefficient TCR = 3850 ppm/K Leads Ni- wire Recommend connection technology: Welding, crimping and Brazing Lead lengths (L) 10mm ±1mm **Ambient conditions** Unhoused for dry environments only > 100 M $\Omega$  at 20°C; > 2 M $\Omega$  at 500°C Insulation resistance Self heating 0.4 K/mW at 0°C Ø0,22±0,02 Response time water current (v= 0.4m/s):  $t_{0.5} = 0.05s$  $t_{0.9} = 0.15s$  $t_{0.5} = 3.0s$ air stream (v= 2m/s):  $t_{0.9} = 10.0s$ Measuring current  $100\Omega:0.3$  to 1.0mA  $500\Omega:0.1$  to 0.7mA1000Ω:0.1 bis 0.3mA (self heating has to be considered) Application advice 1. To avoid shear forces on the connection area, the connection wires may be neither split or bent. The bending may only take place 3 mm after the element, using a bending or splitting tool. 2. Other nominal values, lengths and temperature coefficients on request. 3. Due to a production-caused oxide layer coating

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.

Other tolerances, values of resistance are available

the leads, soft-soldering is restricted.

on request.

Note





## Platinum Temperature Sensor in Thin Film Technology

**MN 420** 

M series platinum temperature sensors are characterized by long-term stability, precision over a broad temperature range and compatibility. They are used in particular for applications with high consumption volumes, typically in the automotive, white goods, ventilation, heating and energy generation sectors as well as in medical and industrial equipment. The type of connection technology facilitates the construction of elements with leads up to 200 mm in length.

| Nominal<br>Resistance R0 | <b>Tolerance</b> DIN EN 60751 1996-07 | <b>Tolerance</b><br>DIN EN 60751<br>2009-05 | L±1mm  | Order Number<br>Plastic Bag |
|--------------------------|---------------------------------------|---|--------|-----------------------------|
| 100 Ohm at 0°C           | Class 2B                              | F 0.6                                       | 150 mm | 32 207 620                  |
| 1000 Ohm at 0°C          | Class B                               | F 0.3                                       | 75 mm  | 32 207 635                  |

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

Specification DIN EN 60751

**Temperature range** -70°C to +500°C (continuous operation)

(temporary use to 550°C possible)
Tolerance Class B: -70°C up to +500°C

Temperature coefficient TC = 3850 ppm/K

Leads Ni- leads

Recommend connection technology:

Welding, Crimping and Brazing

Lead lengths (L) 10mm ±1mm

Ambient conditions Unhoused for dry environments only

Insulation resistance > 100 M $\Omega$  at 20°C; > 2 M $\Omega$  at 500°C

Connection resistance 1.3 m $\Omega$ /mm

Self heating 0.3 K/mW at 0°C

**Response time** Moving water (v= 0.4m/s):  $t_{0.5} = 0.07$ s

 $t_{0.9} = 0.20s$ Air flow (v= 2m/s)  $t_{0.5} = 3.2s$ 

 $t_{0.9} = 11s$ 

**Measuring current**  $100\Omega$ : 0.3 to 1.0mA

1000Ω: 0.1 to 0.3mA

(self heating has to be considered)

**Application advice** 1. To avoid shear forces on the connection area,

the connection wires may be neither split or bent. The bending may only take place 3 mm after the element, using a bending or splitting tool.

2. Other nominal values, lengths and temperature

coefficients on request.

3. Due to a production-caused oxide layer coating

the leads, soft-soldering is restricted.

**Note** Other tolerances, values of resistance are available

on request

