

## Datasheet

## 10x2Pt1000A-G

132030

### Summary

This platinum temperature sensor element is characterized by its large size, which enables or facilitates manual processing.

### Dimensions in mm

|  | L         | W         | L <sub>1</sub> | H               | Ø          |
|--|-----------|-----------|----------------|-----------------|------------|
|  | 9,5 ± 1,5 | 1,9 ± 0,2 | 10 ± 1         | 0,9 + 0,3 - 0,2 | 0,2 ± 0,02 |

### Technical specifications

| Nominal resistance<br>R <sub>0</sub> at 0°C | Specification | Tolerance      | Order Number  | Item Number |
|---|---------------|----------------|---------------|-------------|
| 1000 Ω                                      | DIN EN 60751  | F 0,15 (DIN A) | 10x2Pt1000A-G | 132030      |

|                           |   |                           |                           |
|---------------------------|---|---------------------------|---------------------------|
| Temperature range:        | -70 °C to +500 °C in continuous operation (briefly up to 550 °C possible)     |                           |                           |
|                           | Validity of tolerance F 0.15: -50 °C to +300 °C                               |                           |                           |
| Temperature coefficient:  | TK = 3850 ppm/K   |                           |                           |
| Connecting wires:         | NiPt coated wire, suitable for crimping, welding and brazing                  |                           |                           |
| Long-term stability:      | max. R <sub>0</sub> -drift 0.04 % after 1000 h at 500 °C                      |                           |                           |
| 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 |                           |                           |
| Environmental conditions: | unprotected only in dry environments  |                           |                           |
| Insulation resistance:    | > 100 MΩ at 20 °C; > 2 MΩ at 500 °C   |                           |                           |
| Self-heating:             | 0.2 K / mW at 0°C   |                           |                           |
| Response:                 | water current (v = 0.4 m/s):  | t <sub>0,5</sub> = 0,10 s | t <sub>0,9</sub> = 0,30 s |
|                           | Air flow (v = 2 m/s):   | t <sub>0,5</sub> = 4,0 s  | t <sub>0,9</sub> = 12 s   |
| Measuring current:        | 0.1 to 0.3 mA (consider self-heating)   |                           |                           |
| Measuring point:          | 8 mm from the end of the sensor element body                                  |                           |                           |
| Packaging:                | Taped   |                           |                           |
| <b>Note:</b>              | <b>Please refer to our application and installation instructions.</b>         |                           |                           |
| RoHS compliant            |   |                           |                           |

We reserve the right to make technical changes. All technical data serves as information and does not guarantee properties.

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