







Datasheet 3x1Pt100A-G 112029

Summary

This platinum temperature sensor element is characterized by its long-term stability over a wide temperature range. They are used particularly in the automotive, air conditioning and heating technology branch and in devices for medicine and industry.

Size in mm

_ \	L	W	L ₁	Н	Ø
I					
B B	3 ±0,15	1 ± 0,15	10 ± 1	0,8 +0,3 -0,2	0,15 ± 0,02
L L ₁					

Technical specifications

Nominal resistance R ₀ at 0°C	Specification	Tolerance	Order Number	Item Number
100 Ω	DIN EN 60751	F 0,15 (DIN A)	3x1Pt100A-G	112029

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. R₀-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 M Ω at 20 °C; > 2 M Ω at 500 °C

Self-heating: 0.4 K / mW at 0 °C

Response: water current (v = 0.4 m/s): $_{t0.5} = 0.04$ s $_{t0.9} = 0.12$ s

Air flow (v = 2 m/s): $t_{0,5} = 2.5 \text{ s}$ $t_{0,9} = 8.0 \text{ s}$

Measuring current: 0.3 to 0.1 mA (consider self-heating)

Measuring point: 8 mm from the end of the sensor element body

Packaging: Tape

Note: Please refer to our application and installation instructions.

RoHS compliant





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