Summary

This platinum temperature sensor element is characterized by its excellent price-performance and is therefore used in mass markets.

Dimensions in mm

	L	W	L_1	H	Ø
	2,3 ± 0,15	2,1 ± 0,2	10 ± 1	0,9 + 0,3 - 0,2	0,2 ± 0,02

Technical specifications

Nominal resistance R_0 at 0°C	Specification	Tolerance	Order Number	Item Number
100 Ω	DIN EN 60751	F 0,3 (DIN 2B)	2x2,2Pt100B	111025

Temperature range:	-70 °C to +500 °C in continuous operation (briefly up to 550 °C possible)
	Validity of tolerance F 0,3: -70 °C to + 500 °C
Temperature coefficient:	TK = 3850 ppm/K
Connecting wires:	NiPt coated wire, suitable for crimping, welding and brazing
Long-term stability:	max. R_0-drift 0.04 % after 1000h 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 8ms 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:	0.4 K / mW at 0 °C
Response:	water current (v = 0.4 m/s): $t_{0,5}$ = 0.05 s $t_{0,9}$ = 0.15 s
	Air flow (v = 2 m/s): $t_{0,5}$ = 3,0 s $t_{0,9}$ = 10.0 s
Measuring current:	0.3 to 1 mA (consider self-heating)
Measuring point:	8 mm from the end of the sensor element body
Packaging:	Taped
Note:	**Please refer to our application and installation instructions.**
RoHS compliant	