

WE-Series - Sensor Element with Wire Extensions

Temperature range -70 °C to +500 °C

Performance Characteristics

- Fast response time
- Excellent long-term stability
- High accuracy and interchangeability
- Reliable laser weld connection
- According to DIN EN 60751

Application Examples

- HVAC
- Chromatographs
- Process industry
- Various use as pre-finished sensor

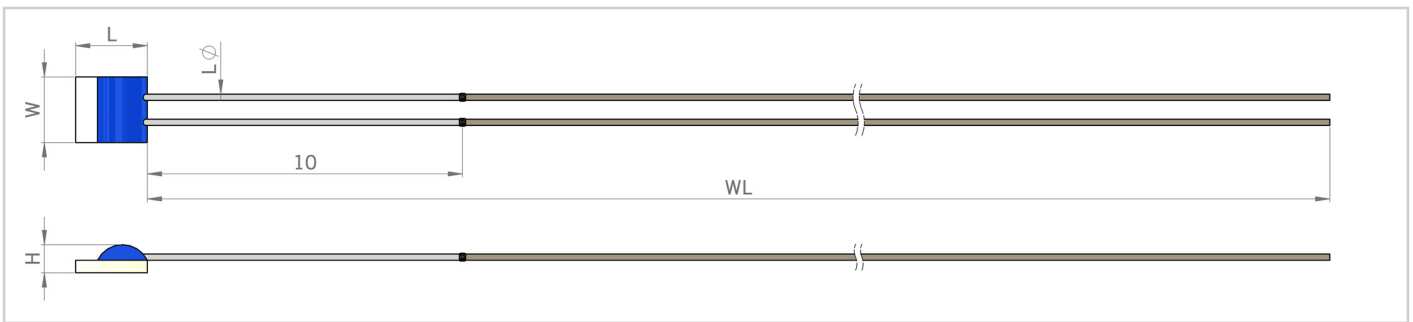


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Dimensions and Materials

No.	Product Type	Element Nominal Resistance R_0 [Ω]	Dimensions and Tolerances (mm)					Conductor		Order Number
			L	W	H	WL	L \emptyset	Material	Diameter	
1	M222-WE-200	Pt100 / F 0.3	2.3 +0.2 -0.1	2.1 \pm 0.2	0.9 +0.3 -0.2	200 \pm 2	0.2 \pm 0.02	Ni (99.6 %)	AWG32	5157675
2	M222-WE-200	Pt1000 / F 0.3	2.3 +0.2 -0.1	2.1 \pm 0.2	0.9 +0.3 -0.2	200 \pm 2	0.2 \pm 0.02	Ni (99.6 %)	AWG32	30200145
3	M310-WE-60	Pt1000 / F 0.3	3.0 \pm 0.15	1.0 \pm 0.15	0.8 +0.3 -0.2	60 \pm 2	0.15 \pm 0.02	Ni (99.6 %)	AWG32	5157677
4	M310-WE-200	Pt1000 / F 0.3	3.0 \pm 0.15	1.0 \pm 0.15	0.8 +0.3 -0.2	200 \pm 2	0.15 \pm 0.02	Ni (99.6 %)	AWG32	5157676

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Performance Data

No.	Temperature Range	Response Time Water (v = 0.4 m/s)		Response Time Air (v = 2.0 m/s)		Pull Force [N]	Conductor Resistance [Ω/m]	Application
		T0.5 [s]	T0.9 [s]	T0.5 [s]	T0.9 [s]			
1	-70 °C to +500 °C	0.05	0.15	3	10	9	2.546	Multi-Purpose
2	-70 °C to +500 °C	0.05	0.15	3	10	9	2.546	Multi-Purpose
3	-70 °C to +500 °C	0.04	0.12	2.5	8	7	2.546	Multi-Purpose
4	-70 °C to +500 °C	0.04	0.12	2.5	8	7	2.546	Multi-Purpose

Temperature Coefficient

TCR = 3850 ppm/K

Measuring Current

Pt100 Ω: 0.3 to 1.0 mA

Pt1000 Ω: 0.1 to 0.3 mA

(self-heating has to be considered)

Self-Heating (Sensor Element)

0.4 K/mW at 0 °C

Storage Life

Min. 12 months (in original packaging)

Customization Options

- Sensor element (type and resistance)
- Wire extension length
- Wire material
- Certifications (e.g. IMDS, PPAP, IP rating)

Need more information?
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Sensor Academy!



RoHS
compliant

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