

## CE-Series - Sensor Element with Cable Extension

Temperature range -65 °C to +260 °C

### Performance Characteristics

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

### Application Examples

- PH meters
- Chromatographs
- Process industry
- Various use as pre-finished sensor

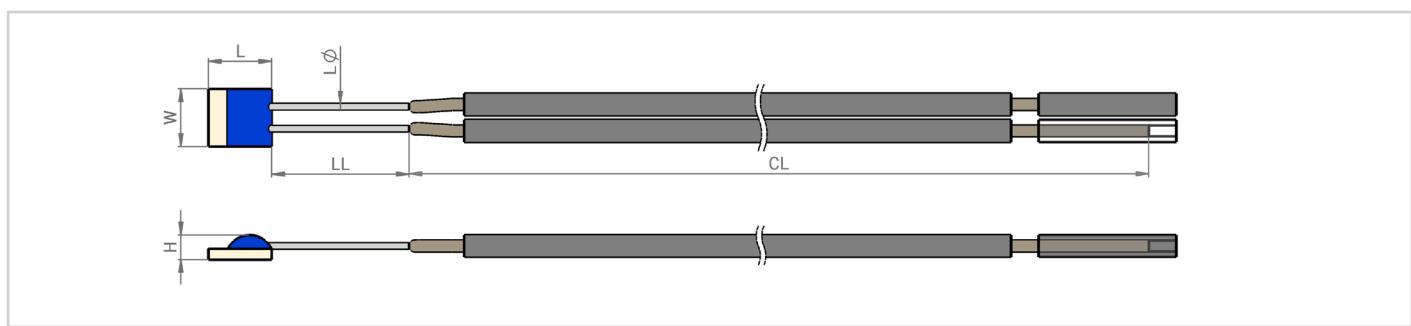


Image for illustration purposes only

### Dimensions and Materials

No.	Product Type	Element Nominal Resistance $R_0$ [Ω]	Dimensions and Tolerances (mm)						Conductor			Order Number
			L	W	H	LL	CL	LØ	Core (AWG)	Insulation	Color	
1	M222-CE-200	Pt100 / F 0.3	2.3	2.1	0.9	3	198 ±5	0.2	24/19 NPC	PTFE	Red	5157701
2	M222-CE-200	Pt1000 / F 0.3	2.3	2.1	0.9	3	198 ±5	0.2	24/19 NPC	PTFE	Red	5157679
3	M222-CE-1220	Pt1000 / F 0.3	2.3	2.1	0.9	3	1217 ±10	0.2	24/19 NPC	PTFE	Red	5211673
4	M422-CE-118	Pt1000 / F 0.3	4	2.1	0.9	10	116 ±1	0.2	30/01 SPC	PTFE	White	5165634

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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	-65 °C to +260 °C	0.05	0.15	3	10	9	0.081 ±10 %	Multi-Purpose
2	-65 °C to +260 °C	0.05	0.15	3	10	9	0.081 ±10 %	Multi-Purpose
3	-65 °C to +260 °C	0.05	0.15	3	10	9	0.081 ±10 %	Multi-Purpose
4	-65 °C to +200 °C	0.07	0.2	3.2	11	9	0.1 ±10 %	Multi-Purpose

### Temperature Coefficient

TCR = 3850 ppm/K

### Measuring Current

Pt100 Ω: 0.3 to 1 mA

Pt1000 Ω: 0.1 to 0.3 mA

(self-heating has to be considered)

### Customization Options

- Sensor element (type and resistance)
- Cable material (core and insulation)
- Cable dimensions (length and diameter)
- Certifications (e.g. IMDS, PPAP, IP rating)

### Self-Heating (Sensor Element)

0.4 K/mW at 0 °C

### Storage Life

Min. 12 months (in original packaging)

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Sensor Academy!



RoHS  
compliant

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