

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

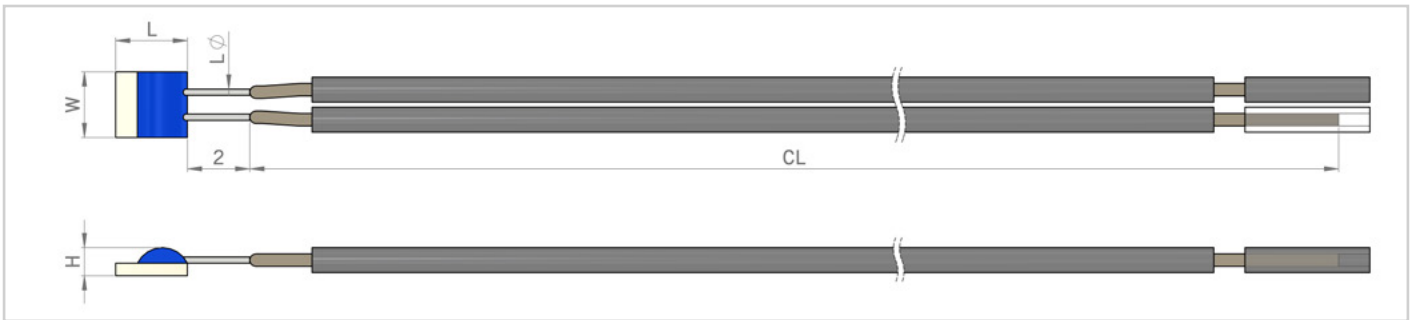


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Dimensions and Materials

No.	Product Type	Element Nominal Resistance R_0 [Ω]	Dimensions and Tolerances (mm)					Conductor			Order Number
			L	W	H	CL	LØ	Core (AWG)	Insulation	Color	
1	M222-CE-200	Pt100 / F 0.3	2.3	2.1	0.9	198	0.2	24/19 NPC	PTFE	Red	5157701
2	M222-CE-200	Pt1000 / F 0.3	2.3	2.1	0.9	198	0.2	24/19 NPC	PTFE	Red	5157679
3	M422-CE-118	Pt1000 / F 0.3	4	2.1	0.9	116	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 \pm 10 %	Multi-Purpose
2	-65 °C to +260 °C	0.05	0.15	3	10	9	0.081 \pm 10 %	Multi-Purpose
3	-65 °C to +200 °C	0.07	0.2	3.2	11	9	0.1 \pm 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)

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

Need more information?
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Sensor Academy!



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