

Ceramic Wire Wound sensor Type KH



- PT100 Temperature sensor
- Large temperature range
From -200°C to +1000°C
- Good temperature range
- No hysteresis
- Limited resistance against vibration
- Medium resistance to mechanical pressure
- Insulation resistance > 100MΩ at 20°C; 1MΩ at 500°C
- Meas exclusivity

DESCRIPTION

A platinum wire is wound inside a ceramic body.

FEATURES

- Nominal value: 100 Ω at 0°C
Measuring point at 8 mm from the body to the end of connection wires
Tolerance according to IEC 60751: class W 0.3
Closer tolerance in restricted temperature range
Temperature coefficient $\alpha = 3850$ ppm/K
- Connection wires: Platinum
- The lead wires connection is especially stable and resistant to pull up stress.
- Options: - Wires length
- Extension cable

APPLICATION

- Accuracy and stability over a large temperature range
- Element for laboratory reference sensor

PERFORMANCE SPECIFICATIONS

Type	Designation	Reference	Nominal reference (Ohm at 0°C)	L D AL A (Dimensions in mm)	Self-heating in air (K/mW)	Response time (s)	
						Water v = 0,4 m/s	Air v = 1 m/s
						±0,5	±0,5
Tolerance Class W 0.3 = ± (0.3+0.005 t) From -196°C to + 1000°C							
1Pt100	KH 4527	SB0589	100	45 2,7 10 0,35	0,07	0,5	14

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VALUES FOR PT100

°C	Ohms	Ohms/°C	°C	Ohms	Ohms/°C	°C	Ohms	Ohms/°C
-200	18.52	0.432	200	175.86	0.368	600	313.71	0.322
-150	39.72	0.417	250	194.10	0.362	650	329.64	0.316
-100	60.26	0.405	300	212.05	0.356	700	345.28	0.310
-50	80.31	0.397	350	229.72	0.350	750	360.64	0.304
0	100	0.391	400	247.09	0.345	800	375.70	0.298
50	119.40	0.385	450	264.18	0.339	850	390.48	0.293
100	138.51	0.379	500	280.98	0.333			
150	157.33	0.374	550	297.49	0.327			

BLOCK DIAGRAM

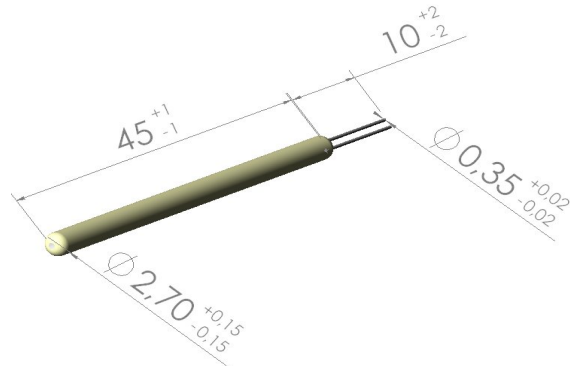
DIMENSIONAL TOLERANCES:

L (length of body) = ± 1 mm

D (diameter of body) = $\pm 0,15$ mm

AL (connection wire length) = ± 2 mm

A (connection wire diameter) = $\pm 0,02$ mm



联系方式



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