

- **Hex Bolt Sensor**
- **Temperature range -50 to +150° C**
- **Miniature design with M5 to M8 hexagonal bolt**
- **PT100 and PT1000 available**
- **Custom designs available**
- **Versatile temperature probe with screw body**

Applications

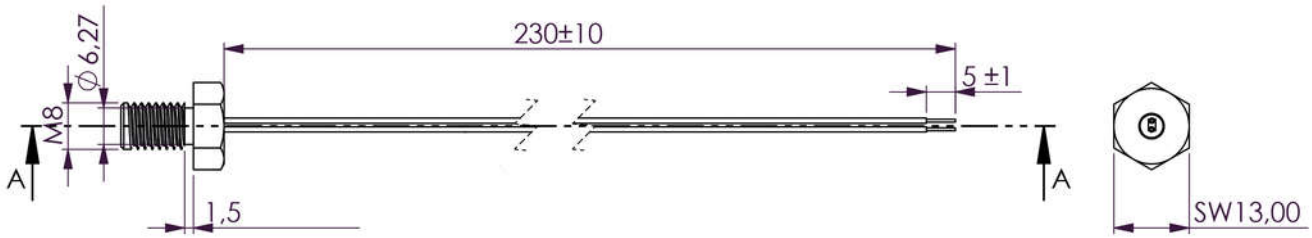
Heating/Cooling systems	Energy	Laboratory	Medical Devices
HVAC	Industrial process	Drilling	

Features

Cost effective - off the shelf model
Stock model - reduced lead times
Improved PU resin has outstanding thermal conductivity for faster response times

Specification	DIN EN 60751 (according to IEC 751)		
Temperature range	-50 °C to +150 °C		
Nominal resistance	PT100: 100 Ω at 0 °C PT1000: 1000 Ω at 0 °C		
Long-term stability	< 0.04% at 1000 h at 130 °C		
Tolerance class	Class A IEC 60751 F0.15 Class B IEC 60751 F0.30	± deviations in °C 0.15 +0.002 x T 0.30 + 0.005 x T	Temperature range of validity in °C -30 to +150 -50 to +150
Temperature coefficient	3850 ppm/K		
Insulation resistance	> 5 MΩ at 750 VDC		
Reaction time in liquid for M5 housing	T65: ca. 6 s T90: ca. 15 s		
Recommended applied current (self heating must be considered)	PT100: 1 mA at 100 Ω PT1000: 0.3 mA at 1000 Ω		
Materials			
Leads and insulation	AWG28 silver-plated copper wire with white PTFE insulation		
Probe material	Stainless steel		

Dimensions in mm



Ordering information

(Please use the characters in the chart below to construct your product code)

Example Code 8101xx - LTP - SP - 8x12 - 23 - PT100B

Probe Size	
5	M5-12; M5x0,8
6	M6
8	M8-12; M8x1.25
x	optional stud size

Thermistor Type	
PT100B	PT100 class B
PT1000A	PT1000 class A

Probe cable length in mm	
5	50
10	100
15	150
20	200
23	230 (Standard)
25	250
30	300
35	350
40	400
45	450
100	1000
x	Custom length

Stock model number:

810115-LTP-SP-8x12-23-PT100B
810114-LTP-SP-8x12-23-PT1000A
810119-LTP-SP-5x12-23-PT1000A

If you require a customized solution for your program contact our sales team.