

- ▶ **Hex Bolt Sensor 10K3A1B**
- ▶ **Temperature range -40 to +125°C**
- ▶ **Miniature design with M8 hexagonal bolt**
- ▶ **Custom designs available**
- ▶ **Higher temperature range available**
- ▶ **Versatile temperature probe with screw body**
- ▶ **Vielseitig Temperaturfühler mit Schraubenkörper**

Applications

Heating / cooling systems
Energy

Laboratory
HVAC

Industrial process
Drilling

Features

Cost effective - off the shelf model

Solid tin plated lead wires

Stock model - reduced lead times

Improved potting epoxy has outstanding thermal conductivity for faster response times

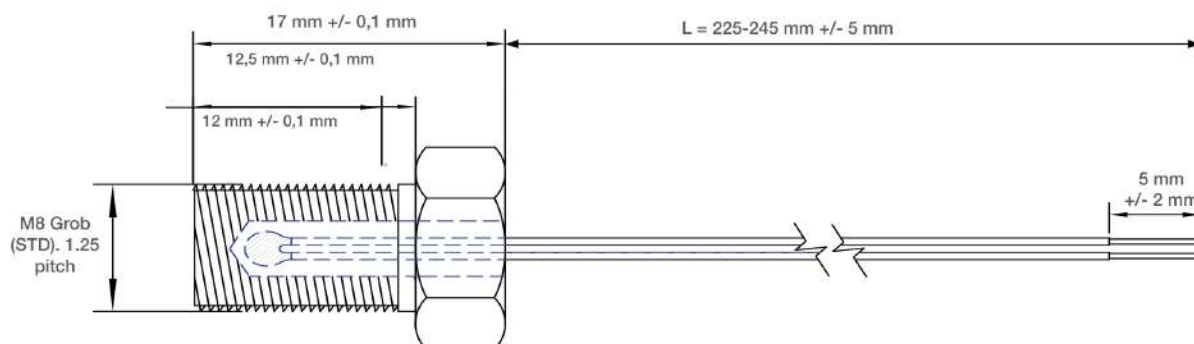
Technical parameters for stock model

	Unit	Value
Nominal resistance at +25°C	Ohms	10,000
Resistance tolerance from 0..70°C	°C	+/- 0.2
Beta value 25/85	K	3976
Tolerance on Beta value 25/85	%	+/- 0.5
Dissipation constant in still air	mW/°C	2
Operating temperature	°C	-40 to +125
Epoxy thermal conductivity	W/(m.K)	1.7

Materials

Leads and insulation	28AWG Solid silver plated copper leads with white Kynar insulation
Probe material	Stainless steel

Dimensions



Ordering information

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

Beispielcode 93068 - ETP - SP - M8x12 - 23 - 10K3A1B

Probe Size

4	M4
5	M5
6	M6
8	M8
x	optional stud size

Probe cable length

5	50
10	100
15	150
20	200
23	230
25	250
30	300
35	350
40	400
45	450
x	Custon length

Thermistor Type

All thermistor types available: Insert details are required

Stock model:
93068-ETP-SP-8-23-10K3A1B
94846-ETP-SP-8-100-10K3A1B

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

Resistance vs. Temperature Table for 10K3A1B Thermistor

Temp. °C	Ohm	Temp. °C	Ohm	Temp. °C	Ohm	Temp. °C	Ohm
-40	336.052	3	28.054	46	4.200,0	89	944,7
-39	314.512	4	26.687	47	4.040,2	90	916,0
-38	294.487	5	25.395	48	3.887,4	91	888,3
-37	275.863	6	24.172	49	3.741,1	92	861,5
-36	258.533	7	23.016	50	3.601,1	93	835,7
-35	242.399	8	21.921	51	3.467,1	94	810,8
-34	227.373	9	20.884	52	3.338,7	95	786,8
-33	213.371	10	19.903	53	3.215,8	96	763,6
-32	200.318	11	18.973	54	3.098,0	97	741,2
-31	188.144	12	18.092	55	2.985,2	98	719,5
-30	176.786	13	17.257	56	2.877,0	99	698,6
-29	166.183	14	16.465	57	2.773,3	100	678,4
-28	156.280	15	15.714	58	2.673,9	101	658,9
-27	147.029	16	15.001	59	2.578,6	102	640,0
-26	138.382	17	14.324	60	2.487,1	103	621,8
-25	130.296	18	13.682	61	2.399,4	104	604,1
-24	122.732	19	13.073	62	2.315,2	105	587,1
-23	115.653	20	12.493	63	2.234,4	106	570,6
-22	109.025	21	11.943	64	2.156,8	107	554,6
-21	102.817	22	11.420	65	2.082,3	108	539,2
-20	97.000	23	10.923	66	2.010,8	109	524,3
-19	91.547	24	10.450	67	1.942,1	110	509,8
-18	86.433	25	10.000	68	1.876,0	111	495,8
-17	81.636	26	9.572,0	69	1.812,6	112	482,3
-16	77.134	27	9.164,7	70	1.751,6	113	469,2
-15	72.907	28	8.777,0	71	1.693,0	114	456,5
-14	68.937	29	8.407,8	72	1.636,6	115	444,2
-13	65.206	30	8.056,1	73	1.582,4	116	432,3
-12	61.700	31	7.721,0	74	1.530,2	117	420,8
-11	58.403	32	7.401,7	75	1.480,1	118	409,6
-10	55.301	33	7.097,3	76	1.431,8	119	398,8
-9	52.383	34	6.807,1	77	1.385,3	120	388,3
-8	49.636	35	6.530,3	78	1.340,6	121	378,2
-7	47.049	36	6.266,3	79	1.297,5	122	368,3
-6	44.612	37	6.014,3	80	1.256,1	123	358,8
-5	42.315	38	5.773,8	81	1.216,1	124	349,5
-4	40.150	39	5.544,3	82	1.177,7	125	340,6
-3	38.109	40	5.325,0	83	1.140,6		
-2	36.183	41	5.115,7	84	1.104,9		
-1	34.366	42	4.915,6	85	1.070,4		
0	32.650	43	4.724,5	86	1.037,3		
1	31.030	44	4.541,7	87	1.005,3		
2	29.500	45	4.367,1	88	974,4		