



- ▶ **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 Schraubkörper**

**Applications**

Heating / cooling systems  
Energy

Laboratory  
HVAC

Industrial process  
Drilling

**Features**

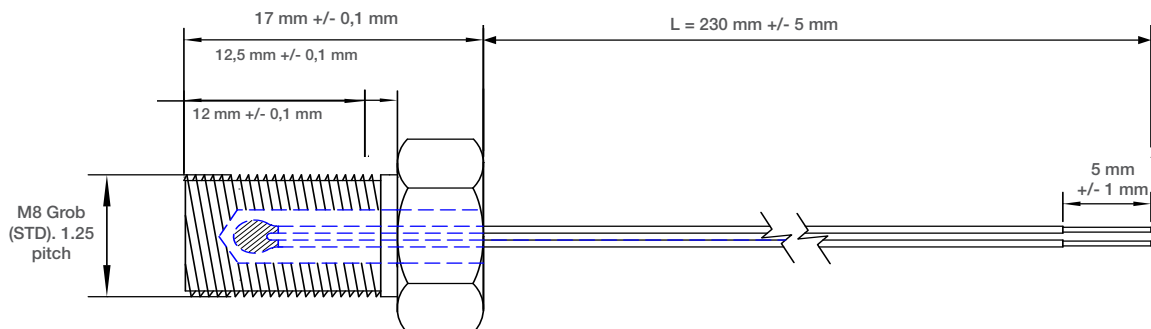
Cost effective - off the shelf model  
Solid tin plated lead wires

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**

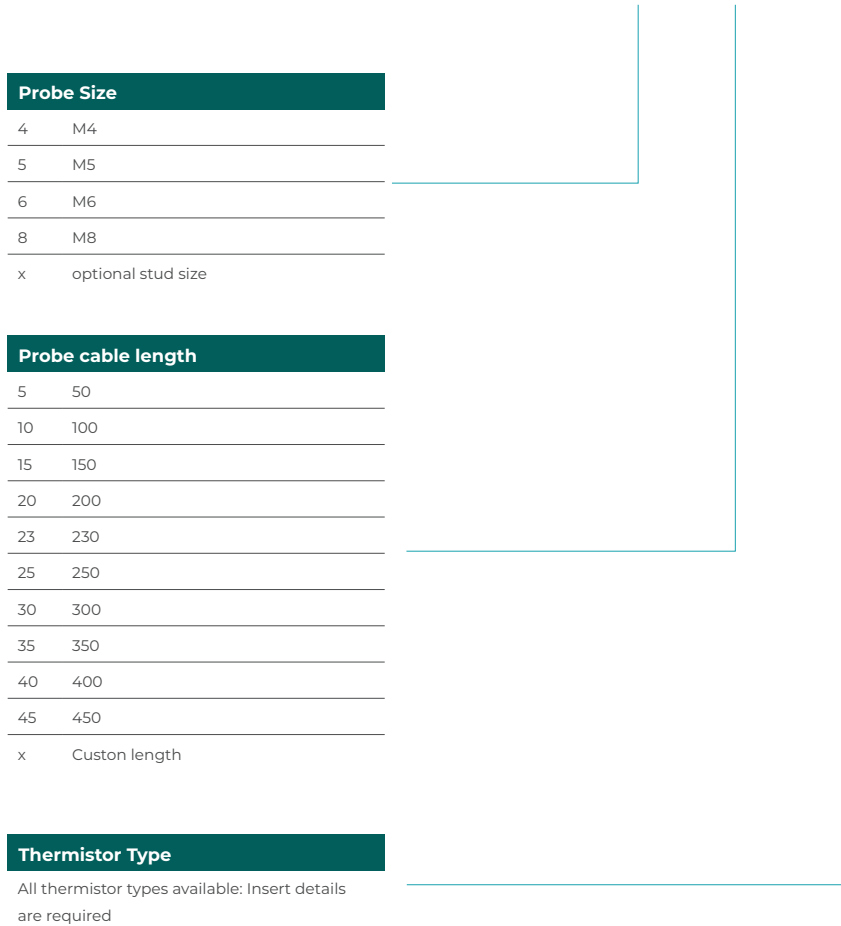




## Ordering information

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

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



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		