

Surface Mount Flag Terminal Probe



- NTC Temperature Sensor
- Various lead lengths available
- Various Mounting hole sizes available
- Available with connector attachment
- RoHs Compliant

DESCRIPTION

NTC Thermistor bead is soldered to extension wires. Unit is potted in a Mylar tube. The device is then potted in the Flag Terminal housing using Black Stycast epoxy.

FEATURES

- Copper housing material has excellent thermal transfer characteristics.
- Flag terminals are available in several sizes allowing a wide choice of extension wire and cables to be used in the assembly.
- Alternative hole sizes available
- Custom tolerances available
- Available in a range of R/T curves
- Temperature range -40°C to +125°C

APPLICATIONS

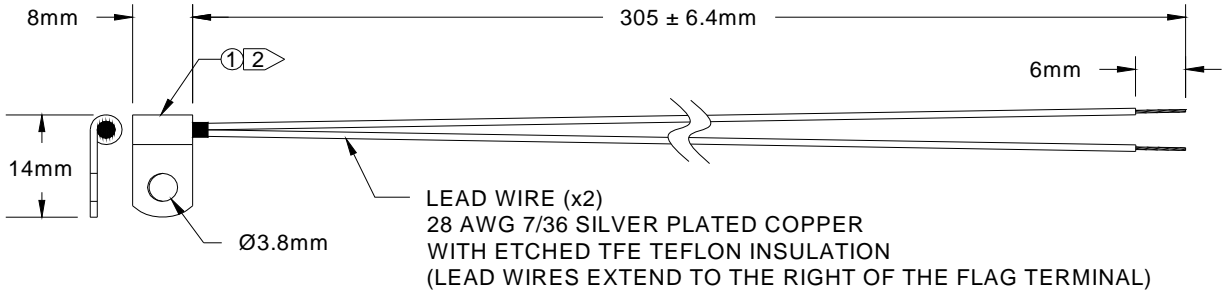
- Designed for bolt-in-place applications.
- Used to measure, compensate and control temperatures of motors, surface plates, heat exchangers, and fluid pumping systems
- Heat sink applications

PERFORMANCE SPECS

Parameters	Units	Value
Resistance @ +25°C	Ohms	10,000
Resistance tolerance from 0°C to +40°C	°C	± 0.2
Beta Value 25/85	K	3694
Tolerance on Beta Value 25/85	%	± 0.5
Time response in Liquids	Seconds	<5

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MECHANICAL DETAILS



NOTES:

- ① HOUSING: "FLAG TERMINAL", TIN PLATED COPPER, #6 MOUNTING HOLE.
- ② ENCAPSULATION: THERMALLY CONDUCTIVE BLACK EPOXY.

Figure 1: Surface Mount Flag Terminal Probe

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms
-40	239828	-15	61031	10	18787	35	6754
-39	226103	-14	58024	11	17983	36	6501
-38	213243	-13	55182	12	17219	37	6260
-37	201188	-12	52495	13	16490	38	6028
-36	189885	-11	49954	14	15797	39	5806
-35	179282	-10	47549	15	15136	40	5594
-34	169331	-9	45274	16	14506	41	5390
-33	159991	-8	43119	17	13906	42	5195
-32	151219	-7	41079	18	13334	43	5007
-31	142978	-6	39147	19	12788	44	4828
-30	135233	-5	37316	20	12268	45	4656
-29	127952	-4	35580	21	11771	46	4490
-28	121104	-3	33935	22	11297	47	4332
-27	114661	-2	32375	23	10845	48	4180
-26	108598	-1	30895	24	10413	49	4034
-25	102889	0	29490	25	10000	50	3893
-24	97513	1	28157	26	9606	51	3759
-23	92448	2	26891	27	9229	52	3629
-22	87675	3	25689	28	8869	53	3505
-21	83174	4	24547	29	8525	54	3386
-20	78930	5	23462	30	8196	55	3271
-19	74926	6	22431	31	7882	56	3160
-18	71148	7	21450	32	7581	57	3054
-17	67581	8	20518	33	7293	58	2952
-16	64212	9	19631	34	7018	59	2854

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60	2760
61	2669
62	2582
63	2498
64	2417
65	2339
66	2264
67	2191
68	2122
69	2055
70	1990
71	1928
72	1868
73	1810
74	1754
75	1700
76	1648

77	1598
78	1550
79	1503
80	1458
81	1414
82	1372
83	1332
84	1293
85	1255
86	1218
87	1183
88	1149
89	1116
90	1084
91	1053
92	1023
93	995

94	967
95	940
96	914
97	888
98	864
99	840
100	817
101	795
102	773
103	752
104	732
105	713
106	694
107	676
108	658
109	641
110	624

111	608
112	592
113	577
114	562
115	548
116	534
117	521
118	508
119	495
120	483
121	471
122	459
123	448
124	437
125	426

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
10K4D25	Surface Mount Flag Terminal Probe	10,000	1,000 *

* For quantities less than Minimum Order Quantity – contact distribution

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