

FLTSN-N

Temperature probe

The FLTSN-N passive temperature probes feature an outstanding stability of the temperature characteristics due to the platinum sensor element used. The sensor element is resin encapsulated in a stainless steel tube. These temperature sensors have a negative temperature coefficient of resistance: when the temperature rises, the resistance decreases.

Key features

- Resin encapsulated sensor element in a stainless steel tube
- Alloy lead wires for reduced thermal conductivity
- Negative temperature coefficient
- Long-term stability
- Rapid time response: <1 second in liquids

Technical specifications

Nominal resistance at 25° C	3 kΩ	
Dissipation Constant in still air at 25° C	0,75 mW/°C	
Temperature coefficient of resistance at 25° C	4,39 %/°C	
Resistance tolerance from 0°C to +70°C	±0,1 °C	
Flying leads	Length	1 m, can be extended*
	Cross section	0,5 mm ²
Ambient conditions	Temperature	-20—60 °C
	Rel. humidity	< 95 % rH (non-condensing)

* Use screened extension wires

Area of use

- Temperature sensing, control and compensation in HVAC applications

Standards

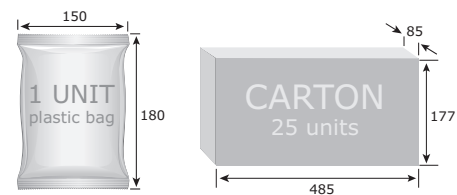
- WEEE Directive 2012/19/EC
- RoHs Directive 2011/65/EC



Dimensions



Packaging



Article	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight	Gross weight
FLTSN-N-3K3A1-010	Bag (1 pc.)	150	≈20	180	0,032 kg	0,033 kg
	Carton (25 pcs.)	485	177	85	0,8 kg	0,97 kg
	Box (150 pcs.)	590	280	280	4,8 kg	6,65 kg

Nominal resistance values

T °C	Ω	T °C	Ω	T °C	Ω	T °C	Ω	T °C	Ω	T °C	Ω	T °C	Ω	T °C	Ω	T °C	Ω	T °C	Ω
-40	100619	-23	34676	-6	13383	11	5692	28	2633	45	1310	62	695	79	389	96	229	113	141
-39	94180	-22	32690	-5	12694	12	5428	29	2522	46	1260	63	670	80	377	97	222	114	137
-38	88194	-21	30830	-4	12 045	13	5177	30	2417	47	1212	64	647	81	365	98	216	115	133
-37	82625	-20	29087	-3	11433	14	4940	31	2316	48	1166	65	625	82	353	99	210	116	130
-36	77442	-19	27453	-2	10855	15	4714	32	2220	49	1122	66	603	83	342	100	204	117	126
-35	72616	-18	25921	-1	10310	16	4500	33	2129	50	1080	67	583	84	332	101	198	118	123
-34	68121	-17	24483	0	9795	17	4297	34	2042	51	1040	68	563	85	321	102	192	119	120
-33	63932	-16	23134	1	9309	18	4105	35	1959	52	1002	69	544	86	311	103	187	120	117
-32	60026	-15	21867	2	8850	19	3922	36	1880	53	965	70	525	87	302	104	181	121	114
-31	56382	-14	20676	3	8416	20	3748	37	1804	54	929	71	508	88	292	105	176	122	111
-30	52982	-13	19558	4	8006	21	3583	38	1732	55	895	72	491	89	283	106	171	123	108
-29	49808	-12	18507	5	7619	22	3426	39	1663	56	863	73	475	90	275	107	167	124	105
-28	46843	-11	17518	6	7252	23	3277	40	1597	57	832	74	459	91	267	108	162	125	102
-27	44073	-10	16588	7	6905	24	3135	41	1535	58	802	75	444	92	259	109	157		
-26	41484	-9	15713	8	6577	25	3000	42	1475	59	774	76	430	93	251	110	153		
-25	39062	-8	14890	9	6266	26	2872	43	1417	60	746	77	416	94	243	111	149		
-24	36796	-7	14114	10	5971	27	2749	44	1362	61	720	78	402	95	236	112	145		



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Global trade item numbers (GTIN)

Packaging	FLTSN-N-3K3A1-010
Unit	05401003007037
Carton	05401003300831
Box	05401003501245