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TPE OVERMOLDED (W/ STAINLESS STEEL) TEMPERATURE PROBE Ø6-X-50MM

Features

- IP68 Rating
- External stainless-steel housing
- 24 AWG double insulated TPE cable
- Insulation resistance 100MΩ @ 500VDC
- Temperature range -40ºC to +105ºC

Applications

- Refrigeration applications
- Freezer cabinets
- Case refrigeration
- Climate control systems
- Industrial process control
- Vending machines

Description

This assembly consists of a D0-35 NTC thermistor soldered to an extension cable. The sensor and the extension cable are molded as one single vulcanized unit to provide a high degree of protection against moisture and water ingress. The sensor is protected from mechanical damage by an external stainless-steel housing.

Customized configurations available on request for volume applications. Options include:

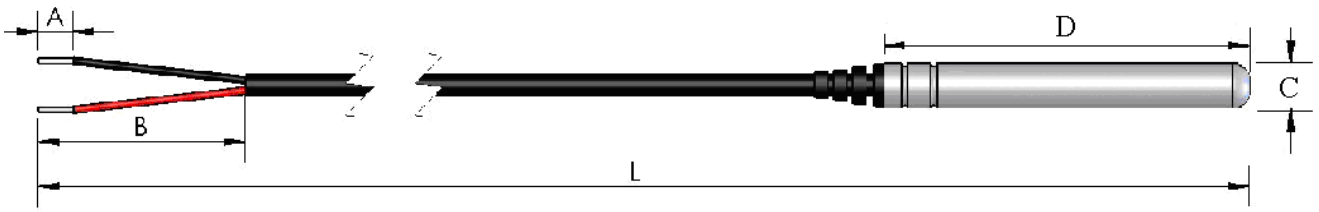
- Resistance / temperature characteristics
- Various electrical tolerances available
- Wire length
- Connector type

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Performance Specifications

Parameters	Value	
Resistance and corresponding Beta options	Nominal resistance at +25°C	Beta value (25/85)
	10K Ohm	3435 K
	10K Ohm	3976 K
Resistance tolerance	± 1%	
Beta tolerance	± 2%	
Time response (63.2% of temperature span) in liquid	<24 s	
Insulation resistance	100 MΩ @ 500 VDC	
Temperature range	-40ºC to +105ºC	
Resistance drift after storage at 70°C for 1000h	<1%	
Cable	24 AWG (7/32) Stranded TPC conductor with black TPE insulation	
Probe head	Overmolded black TPE material protected in a 304 stainless-steel housing	

Dimensional Information



	A	B	C	D	L
Dimensions	5.0	35.0	Ø 6	50	Refer to Page 4
Tolerance	± 1.0	± 3.0	± 0.5	± 1.0	

All dimensions in millimeters

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Resistance v Temperature Table

Temp (°C)	10K ohms Beta $_{25/85}$ = 3435	10K ohms Beta $_{25/85}$ = 3976
-40	203778	337181
-35	153354	243395
-30	116622	177639
-25	89567	131002
-20	69431	97563
-15	54296	73337
-10	42815	55614
-5	34028	42528
0	27246	32780
5	22045	25463
10	17943	19937
15	14688	15729
20	12088	12499
25	10000	10000
30	8313	8053
35	6944	6526
40	5826	5320
45	4909	4361
50	4154	3595
55	3529	2979
60	3011	2482
65	2579	2079
70	2217	1749
75	1913	1479
80	1657	1256
85	1439	1071
90	1254	917
95	1097	788
100	962	680
105	848	588

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Ordering Information

Part Number	Resistance at +25°C	Beta Value (25-85)	Length (mm) (Dimension L)
20026071-01	10000 Ω	3435	1000
20026071-02			2000
20026071-03			3000
20026071-11	10000 Ω	3976	1000
20026071-12			2000
20026071-13			3000

Example of Customization Options available for high volume enquires:

- Various Nominal resistance Values and material systems available
- Variety of compatible Connectors

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