



DESCRIPTION

The PTS31 temperature sensor is designed for temperature applications in high vibration environments. The lug style glass encapsulated NTC allows for additional protection against water ingress. The low cost automated manufacturing process allows for a cost effective solution.

- -50-150°C Operating Temperature
- Temperature Sensor - .1C Resolution
- Ring Lug NTC probe
- IP65
- Media –Air, & Gas

APPLICATIONS

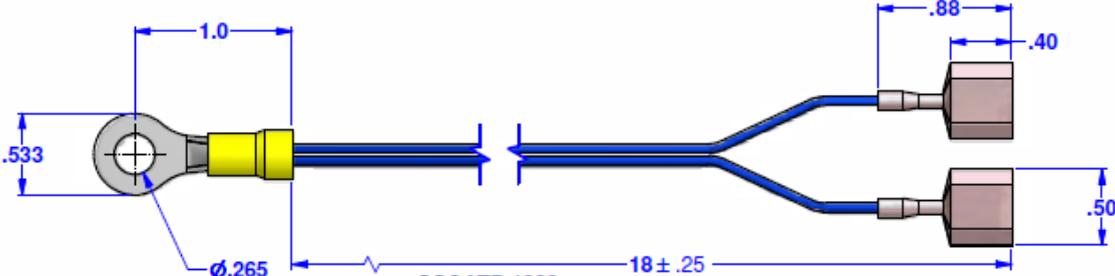
- Commercial Refrigeration
- HVAC
- Semiconductor
- Liquid /Gas Chromotagraphy
- Commercial Ovens

Maximum Environmental Ratings

Operating Temperature -50°C to 150°C

Storage Temperature Range -55°C to 150°C

Mechanical Dimensions (inches),



SSCATP 1828
NTC Sensor
Curve "Z" - 3000 OHMS @ 25°C
 $\pm 0.2^\circ\text{C}$ from 0°C to 70°C

SSCATP 4805
AMP (TE) Ring
Terminal

SSCATP 2062
20AWG stranded
tinned copper.
Blue Xlink PVC
Wire

SSCATP 4825
AMP (TE)
Connector. 1/4"
Insulated.



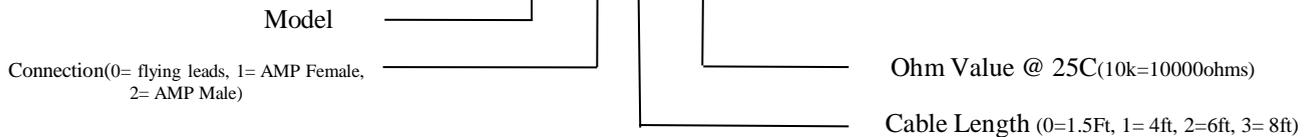
Resistance vs Temperature Chart

Temperature @	Resistance Value (Kohm)	Temperature @	Resistance Value (Kohm)
-50	200.250	80	0.37680
-40	100.680	85	0.32130
-30	53.010	90	0.27486
-20	29.091	100	0.20361
-10	16.590	110	0.15306
0	9.795	120	0.11661
10	5.970	125	0.10227
20	3.747	130	0.08997
25	3.0000	140	0.07026
30	2.4168	150	0.05547
40	1.5975		
50	1.0803		
60	0.7461		
70	0.5250		

Beta: 25/85- 3976 , Temperature Coefficient @ 25C $-4.4\%/^{\circ}\text{C}$

Part Number Configuration

PTS31-0-1K



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