

T H E R M O M E T R I C S
A COMMITMENT TO EXCELLENCE

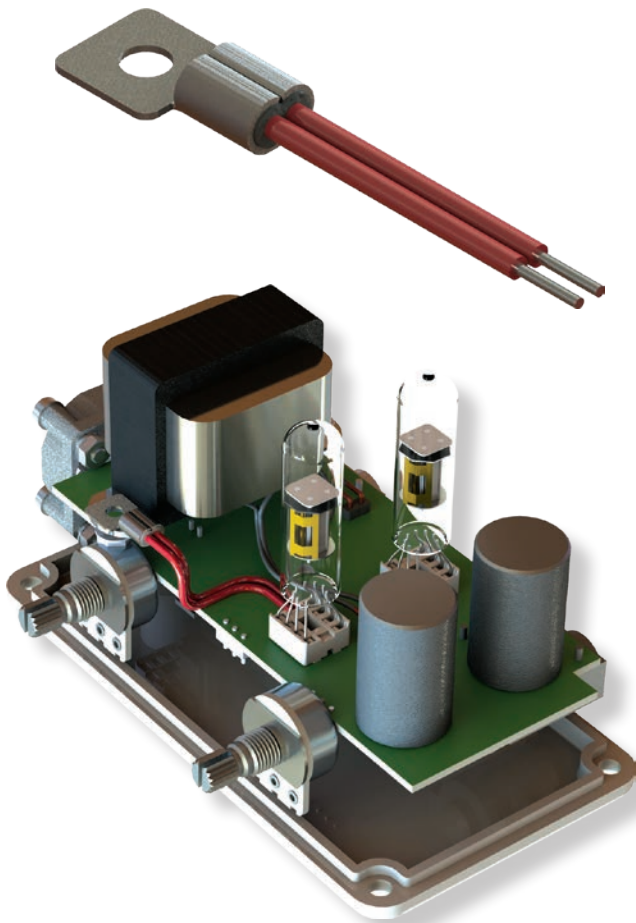
Product Spotlight



Ring Terminal Temperature Sensor

Overview

Ring Terminal Temperature Sensors are commonly used in the automotive and industrial markets allowing surface temperature measurement with designs and performance tailored to specific application requirements. The sensors consist of an NTC thermistor located within a ring-terminal, which is screw-fixed into position. Lead wires and connector systems provide a means of monitoring the temperature at a remote control board.



Applications

Industrial

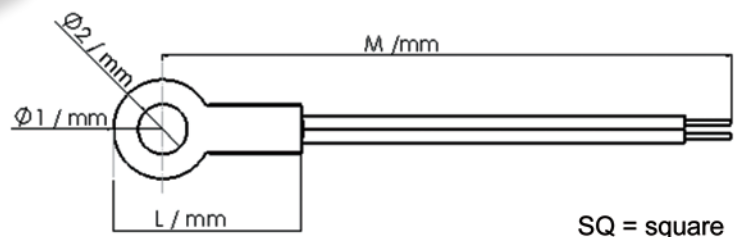
- Household appliances (cookers, irons, steamers, hair dryers)
- Heaters/ventilators and air conditioners
- Power management (transformer over-temperature)
- Heat sink over-temperature

Automotive

- EV/HEV - Battery pack
- Engine block / transmission block

Features

- Surface mount sensing with screw-fix location
- Temperature Range: -40°C to 105°C ($+200^{\circ}\text{C}$ by design)
- Response Time: 10 seconds and upwards
- Tailored resistance versus temperature
- Dielectric Strength: 750 Vac and upwards
- Environmental Protection: IP57 and upwards



Amphenol
Advanced Sensors

Ring Terminal Temperature Sensor Part Numbers

Part Number	Thermistor		Ring Terminal			Lead Wire		
	R / Ω (25 °C)	B (25/85)	Ø1	Ø2	L	M ± x	Material	Temp Rating / °C
JR1035L 500	10,000 ± 5%	3977 ± 0.75%	6.4	3.2	12.3	50 ± 5	PVC	-20 to 105
JR103R5L202	10,000 ± 5%	3977 ± 0.75%	6.4	3.2	12.3	2000 ± 50	PVC	-20 to 105
CTTS-125670-1	10,000 ± 5%	3435 ± 1%	8*8 SQ	3.2	15	1000 ± 20	Teflon	-40 to 120
CTTS-125670-7	10,000 ± 5%	3435 ± 1%	8*8 SQ	3.2	15	700 ± 20	Teflon	-40 to 120
CTTS-186340	10,000 ± 1%	3977 nom	9.7	3.8	13.7	25 ± 3	FEP	-40 to 150
CTTS-156922	10,000 ± 1%	3435 ± 1%	12.0	6.4	23.8	195 ± 20	PVC	-40 to 105
CTTS-185346	10,000 ± 1%	3435 ± 1%	12	6.4	18.5	180 ± 20	PVC	-40 to 105
CTTS-301314	10,000 ± 5%	3977 ± 1%	15	8.4	28.0	580	XLPE	-40 to 125
A-1602	100,000 ± 2%	3960 ± 1%	9.5	4.3	19.4	145 ± 10	Teflon	-20 to 180
A-1696	10,000 ± 2 °C	3960 ± 1%	7.1	3.7	16	915 ± 15	TFE	-20 to 100
A-1730	100,000 ± 2%	3960 ± 1%	9.5	4.3	19.4	564 ± 10	Teflon	-20 to 180
A-1742	40,000 ± 1.5%	3936 ± 1%	22.2	13.1	49.8	564 ± 10	Polyrad-XD	-20 to 100
JRS7740	10,000 ± 5%	3435 ± 1%	9.0	4.3	25	400 ± 10	PVC	-20 to 105