YAGEO GROUP
YAGEO Nexensos

RT-Series - Ring Terminal Pt Temperature Sensor

Temperature range -50 °C to +260 °C

Performance Characteristics

- Sensing element electrically isolated with dielectric strength of 3 kV AC
- Ring terminal tip material stainless steel
- Protected IP69
- Eyelet configuration to fit M3 screw size

Application Examples

- BEV / HEV Bus Bars
- Charging Guns / Infrastructure
- HVAC
- Heat sinks
- Motor and bearing casings

Dimensions and Materials

No.	Product Type	Element Resistance R_0 [Ω]	Dimensions (mm)					Conductor			Order Number
			BD	HL	HH	CL	L	Core (AWG)	Insulation	Color	
1	RT2150-B32	Pt100 / F 0.3	3.2 +0.2 / -0	22 +4 / -0	3.2 ±0.3	250 ±10	266 ±10	26/07 NPC	PTFE	Black	5203018
2	RT2150-B32	Pt1000 / F 0.3	3.2 +0.2 / -0	22 +4 / -0	3.2 ±0.3	250 ±10	266 ±10	26/07 NPC	PTFE	Black	5203017

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Performance Data

No.	Temperature Range	Housing Material	Dielectric Strength AC (Housing)	Response Time Water (v = 0.3 m/s)		Pull Force [N]	Conductor Resistance [Ω/m]	Application
				T0.5 [s]	T0.9 [s]			
1	-50 °C to +260 °C	Stainless Steel	3000 VAC, 60 s	5.7	16.2	>30	0.138 ±25%	Multi-Purpose
2	-50 °C to +260 °C	Stainless Steel	3000 VAC, 60 s	5.7	16.2	>30	0.138 ±25%	Multi-Purpose

Temperature Coefficient
TCR = 3850 ppm/K

Measuring Current
Pt100 Ω: 0.3 to 1.0 mA
Pt1000 Ω: 0.1 to 0.3 mA
(self-heating has to be considered)

Self-Heating (Sensor Element)
0.4 K/mW at 0 °C

Customization Options

- All outer dimensions
- Conductor size and material
- Sensor resistance
- Connectors
- Certifications (e.g. IMDS, PPAP, IP rating)

Need more information? Check out our Sensor Academy!

RoHS compliant

The information provided in this data sheet describes certain technical characteristics of the product, but shall not be qualified or construed as quality guarantee (Beschaffenheitsgarantie) in the meaning of sections 443 and 444 German Civil Code. The information provided in this data sheet regarding measurement values (including, but not limited to, response time, long-term stability, vibration and shock resistance, insulation resistance and self-heating) are average values that have been obtained under laboratory conditions in tests of large numbers of the product. Product results or measurements achieved by customer or any other person in any production, test, or other environment may vary depending on the specific conditions of use. YAGEO Nexensos does not recommend the use of standard catalogue products or automotive grades for aerospace applications or manned space flight. The customer is solely responsible to determine whether the product is suited for the customer's intended use; in this respect YAGEO Nexensos cannot assume any liability. The sale of any products by YAGEO Nexensos is exclusively subject to the General Terms of Sale and Delivery of YAGEO Nexensos in their current version at the time of purchase, which is available under www.yageo-nexensos.com/tc or may be furnished upon request. This data sheet is subject to changes without prior notice.

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