

# RTD Bearing Sensor

RTD580



The Istec miniature bearing sensors are designed to monitor bearing temperature on industrial rotating equipment and are available in RTD or thermocouple. Bearing temperature is a key indicator for oil film and bearing health monitoring.

Small tip sizes allow for quick measurements and easy installation, and the different cable options offer excellent durability in harsh environments. The unique oil barrier is designed to withstand temperature fluctuations and to prevent any oil pass-through over time. Each barrier is pressure tested to ensure manufacturing quality before being shipped to the customer.

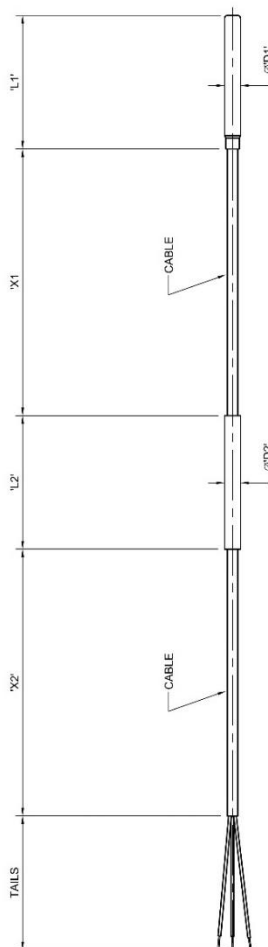


## KEY FEATURES

- Miniature bearing sensor
- Unique oil barrier design
- Leak-proof pressure tested\*

Combine with Istec multi-sensor sealing glands to complete your oil-tight measurement solution.

\* The sensor and barrier assembly has been extensively tested and optimized to create a durable, oil tight solution for applications up to 5 bar. To ensure quality in the manufacturing process, each oil barrier is pressure tested (2 bar, 20 °C) before release.



Sensor configuration	Simplex (recommended)	S	
	Duplex <sup>1</sup>	D	
Sensor wiring	3-wire	3	
Sensor type	Pt100	100	
Sensor class	Class	A	
Tip material	316 Stainless Steel	316	
Tip diameter $\varnothing$ (D1)	3 mm <sup>2</sup>	3	
Tip length (L1)	8 mm <sup>2</sup>	8	
Cable material (X1)	PTFE/PFA – screened	A	
	PTFE/PFA SSOB	B	
	Fibreglass	D	
	Fibreglass SSOB (recommended) <sup>3</sup>	E	
Cable length (X1)	XXXX mm	XXXX	
Oil barrier diameter $\varnothing$ (D2)	6 mm <sup>2</sup>	6	
Oil barrier length (L2)	50 mm <sup>2</sup>	50	
Cable material (X2)	PTFE/PFA - screened (recommended) <sup>4</sup>	A	
	PTFE/PFA SSOB	B	
	Fibreglass	D	
	Fibreglass SSOB	E	
Cable length (X2)	XXXX mm	XXXX	
Tails length	100 mm <sup>2</sup>	100	
RTD temperature range	Standard: -50°C to +250 °C <sup>2</sup>	S	
Standard feature	2 bar test certificate on oil seal		
Optional feature	5 bar test certificate on oil seal <sup>1</sup>		

<sup>1</sup> Configuration available on request

<sup>2</sup> Other sizes or types available on request

<sup>3</sup> Recommended for durable protection and to avoid capillary function

<sup>4</sup> Recommended for chemical resistance and easy handling

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Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

