

MOTOR OR PUMP-BEARING SENSOR

DT112 NC

For measuring the temperature of
motor or pump bearings

- High measurement **accuracy** and **reliability**
- **High mechanical resistance**
- **NC-qualified** according to RCC-E



Nuclear

■ Operation

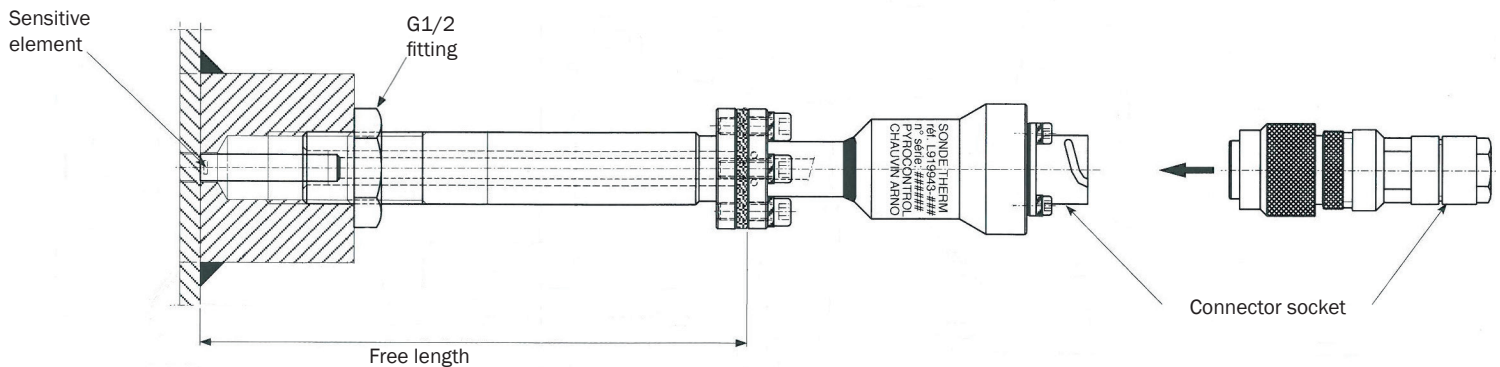
Fixed by a fitting on the pump or motor body, **the DT112 temperature sensor** is equipped with a threaded extension and measures the surface temperature as close as possible to the motor or pump bearings. This temperature measurement is essential **to detect and indicate any abnormal overheating** of the pump and motor bearings. Depending on the safety requirements of the motor and pumps to be equipped, the DT112 is supplied with **K3 or NC qualification** guaranteeing reliable measurements in all circumstances.

■ Technical specifications

DT112 NC temperature sensor

Temperature range	0 / + 400° C
Qualification	NC according to RCC-E, Chapter B3000
Safety level	Functional classification: F1A / Seismic: SC1 / Electrical: NC
Response time	<120s at 63% for a fluid speed of 1m/s.
Measuring element according to configuration	1 x Pt100, 4-wire mounting 2 x Pt100, 3-wire mounting
Measurement current	Maximum current < 3mA to remain within the required measurement accuracy
Measurement accuracy	Class B as per IEC60751: 2008
Electrical insulation	Ri ≥ 100 MΩ at 100 Vp-p / 1 min for a temperature < 200° C Ri ≥ 10 MΩ at 100 Vp-p / 1 min for a temperature > 200° C
Electrical connection	IP 67 hermetic bayonet connector socket, NC-qualified
Sensor / process interface	M18 or G1/2 stainless-steel fitting

■ Design diagram



■ To order

	DT112 code	Sensitive element	Free length of sensor	Fitting	Reference
DT112 NC	DT112-NC-NRCCM-9196243-G12-214-S7	1x Pt100	241 mm	G1/2	L919624-001
	DT112-NC-NRCCM-969693-M18-588-S7	1x Pt100	588 mm	M18	L969693-001
	DT112-NC-NRCCM-919943-G12-165-S7	2x Pt100	165 mm	G1/2	L919943-001
	DT112-NC-NRCCM-919681-M18-288-S7	2x Pt100	288 mm	M18	L919681-000

■ Certifications

Pyrocontrole is certified **ISO 9001** for management through Quality and **ISO 14001** for control of the environmental impact. For its dedicated equipment for the Chinese civilian nuclear industry, Pyrocontrole benefits from **HAF604** certification.

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