

MOTOR OR PUMP-BEARING SENSOR

DT112 K3

For measuring the temperature of
motor or pump bearings

- High measurement **accuracy** and **reliability**
- **High mechanical resistance**
- **K3-qualified** according to RCC-E



Nuclear

■ Operation

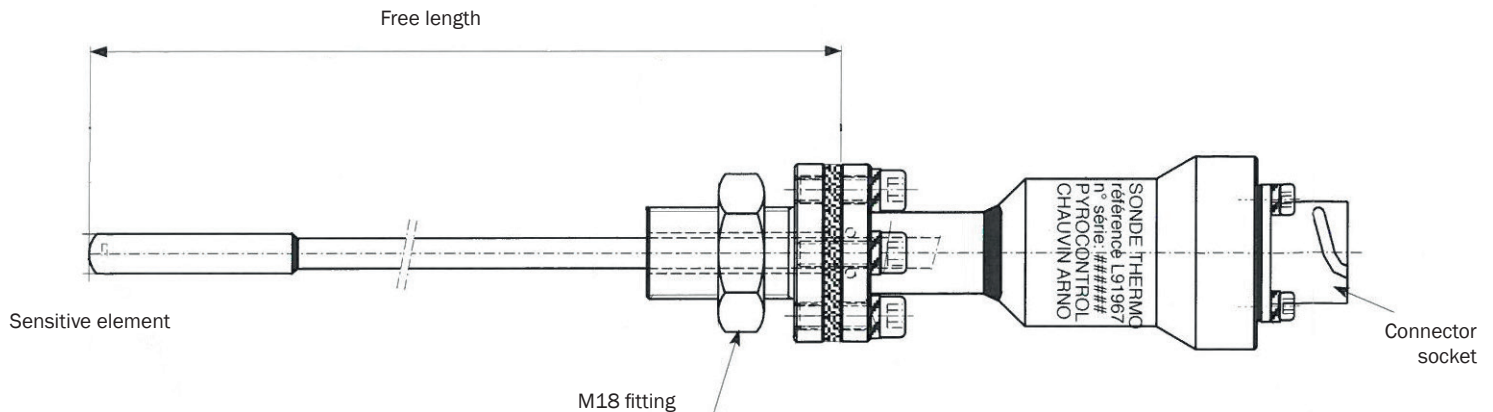
Fixed by a fitting on the pump or motor body, **the DT112 temperature sensor** is equipped with a threaded extension and measures the surface temperature as close as possible to the motor or pump bearings. This temperature measurement is essential **to detect and indicate any abnormal overheating** of 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 K3 temperature sensor

Temperature range	0 / + 150 °C
Qualification	K3ad / F-BAS environment as per RCC-E Chapter B4000
Safety level	Functional classification: F2 / Seismic: SC1/ Electrical: E2
Response time	<120s at 63% for a fluid speed of 1m/s.
Measurement element according to configuration	1 x Pt100, 4-wire mounting 2 x Pt100, 3-wire mounting
Radiation withstand	50 kGy
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 at 150 °C
Electrical connection	IP 67 hermetic bayonet connector socket, K2-qualified
Sensor / process interface	M18 stainless-steel fitting

■ Design diagram



■ To order

	DT112 code	Sensitive element	Free length of sensor	Fitting	Reference
DT112 K3	DT112-K3ad-NRCCM-919573-M18-113-S07	1x Pt100	113 mm	M18	L919573-001
	DT112-K3ad-NRCCM-919675-M18-188-S07	1x Pt100	188 mm	M18	L919675-000
	DT112-K3ad-NRCCM-919568-M18-165-S07	2x Pt100	165 mm	M18	L919568-001
	DT112-K3ad-NRCCM-919667-M18-250-S07	2x Pt100	250 mm	M18	L919667-001

■ 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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