

## BEARING SENSOR FOR ROTATING MACHINES

For measuring the bearing temperature at the heart of pumps, motors, gear motors, grinding mills, centrifuges, electrical generator sets, turbines and alternators.

- Withstands strong vibrations
- Fast response time
- 1 or more measurement points
- Qualified for explosive areas
- Output via HART transmitter



Petrochemicals



Pumps, motors



Gear motors, grinding mills

## ■ Operation

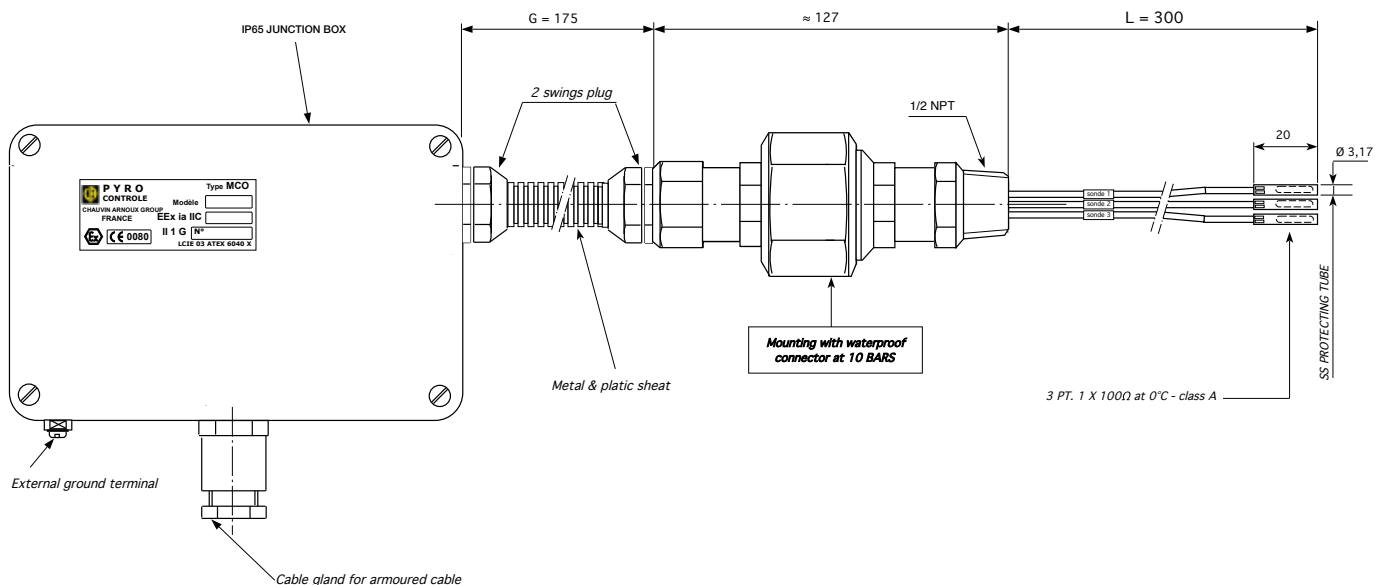
Equipped with a junction box fixed on the frame of the rotating machine, this oil-proof multipoint sensor can be used to measure bearing temperatures inside the machine.

With its fast response time, the slightest heating is detected by the sensor in order to alert the system controller of an imminent risk of damage to the bearing.

## ■ Specifications

Operating temperature	Up to 200°C
Response time	< 3s. for Pt100, diameter 3 mm
Extension cable	Stainless-steel or Teflon sheath, 2, 3 or 4 conductors (with shielding braid for Teflon)
Measuring element	Pt100 or Pt1000, assembly designed to withstand strong vibrations
Measurement accuracy	Class A or Class B
Oil-proofing	Up to 20 bar oil pressure
Junction box	Certification: ATEX ia or d, IECEx Connection: direct or via a temperature transmitter
Measurement tube	316L stainless steel, diameter 3, 4.5 or 6 mm
Transmitter	Clippable on DIN rail Input: Pt100 or Pt1000 /Output 4...20mA Hart or Fieldbus foundation or Profibus DP

## ■ Design diagram



## ■ Other versions

Specific features: our R&D Department can produce tailored temperature sensors according to your specifications.

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