# Instructions: Non-Sparking Miniature Temperature Detectors
# II 3 G Ex nA IIC Gc U

SPI 00-1239 Rev. B (Document 1000208 Rev. B)

## 1. Description

These temperature detectors are designed to be installed in babbitt style bearing shoes.

- Operating temperature range -50°C to 200°C.
- S___ models are available for 2-, 3- or 4-wire measurement circuits and with single or dual resistance temperature detector (RTD) elements.
- TC___ models are available with single or dual thermocouple elements.

## 2. Attestation of Conformity

This Attestation of Conformity is issued under the sole responsibility of the manufacturer.

Temperature detector type: S102617, S102618, S102619, S102662, TC102620, TC102621, TC102622, TC102663.

The product defined above is in conformity with the following relevant legislation:
ATEX Directive 2014/34/EU
EN 60079-0:2012+A11:2013 Explosive atmospheres - Part 0: Equipment - General requirements
EN 60079-15:2010 Explosive atmospheres - Part 15: Equipment protection by type of protection “n”

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## 3. Installation Instructions

The installation of the temperature detector in a bearing completes the enclosure and provides the protection from mechanical impact.
A separate installation instruction is included with each shipment. If lost, a copy can be downloaded from the Minco website (www.minco.com). The appropriate Engineering Instruction(s) for each model is as follows:

- S102617, TC102620: EI 164 Installing Case Style “A” Sensors in Sleeve Bearings, or EI 167 Installing Case Style “A” Sensors in Thrust Bearings.
- S102618, TC102621, S102662, TC102663: EI 180 Installing Case Style “B” Sensors in Thrust Bearings (Babbitt), or EI 181 Installing Case Style “B” Sensors in Thrust Bearings (Spring and Ring).
- S102619, TC102622: EI 184 Installing Case Style “C” and “D” Sensors in Bearing Shoes.

## 4. Special Conditions of Use

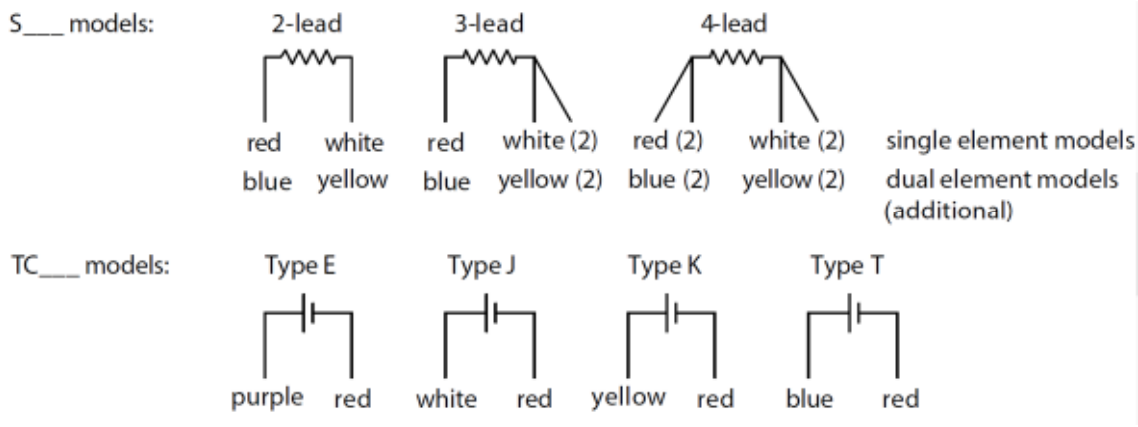
Maximum voltage: ≤ 30 V

## 5. Electrical Data

Electrical data for S___ models only:

- Measuring current: ≤ 1 mA
- Power (under fault conditions): ≤ 0.45 W

## 6. Electrical Connections




## 7. Marking Example

MINCO
Minneapolis, MN USA
Model: S102617
Lot batch: 123456-*-*-001
Ex II 3 G Ex nA IIC Gc U