

# Non-Sparking Temperature Detectors, ATEX II 3 G Ex nA IIC U

## 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.
- T\_\_\_ models are available with single or dual thermocouple elements.

## 2. 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/support](http://www.minco.com/support)). The appropriate Engineering Instruction(s) for each model is as follows:

- S102617, TC102620: EI164 *Installing Case Style "A" Sensors in Sleeve Bearings*, or EI167 *Installing Case Style "A" Sensors in Thrust Bearings*.
- S102618, TC102621, S102662, TC102663: EI180 *Installing Case Style "B" Sensors in Thrust Bearings (Babbitt)*, or EI181 *Installing Case Style "B" Sensors in Thrust Bearings (Spring and Ring)*.
- S102619, TC102622: EI184 *Installing Case Style "C" and "D" Sensors in Bearing Shoes*.

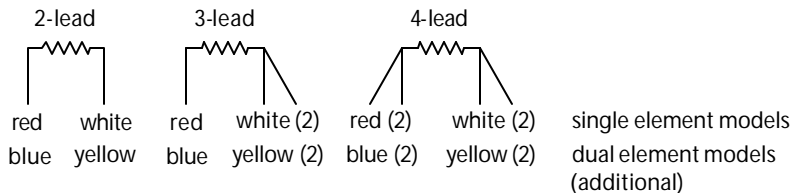
## 3. Electrical Data

Electrical data for S\_\_\_ models only:

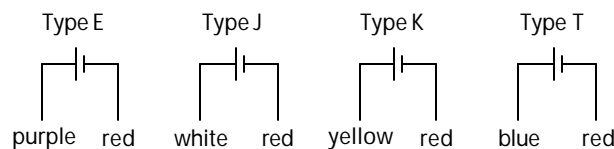
- Measuring current:  $\leq 1$  mA
- Power (under fault conditions):  $\leq 0.45$  W

## 4. Electrical Connections

S\_\_\_ models:



TC\_\_\_ models:



## 5. Declaration

### EC Declaration of Conformity

Temperature Detector Type:

S102617, S102618, S102619, S102662, TC102620, TC102621, TC102622, TC102663

The product defined above conforms to:

EN60079-0 Electrical apparatus for explosive atmospheres – general requirements

EN60079-15 Electrical apparatus for explosive atmospheres – Part 15 Construction, Test and Marking of Protection "n" electrical apparatus

D.L. Wilson, Chief Engineer, 9 February 2004

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