

Instructions: S209968 Non-Sparking Temperature Detector

II 3 G Ex nA IIC Gc U

Document 1634350 Rev. B

1. Description

Resistance temperature detector designed to be installed in babbitt style bearing shoes.
Operating temperature range is -50°C to 200°C.

2. Attestation of Conformity

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

Temperature detector type: S209968.

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"

Rob Bohland 11 July 2017

Rob Bohland, Ex Authorized Person

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3. Installation Instructions

Install the temperature detector in a bearing following the steps below.

1. Drill or bore a .193" (4.90mm) diameter hole (#10) into the bearing shoe where the temperature detection is desired.
2. Insert the sensor into the hole until it reaches the bottom.
3. Pot the leadwire in place where it enters the shoe; use an epoxy or another suitable potting compound compatible with the bearing shoe materials, temperature, and service conditions. During application and curing of the potting compound, make certain the detector remains at the bottom of the hole.
4. When routing the leadwire from the bearing shoe, leave sufficient slack in the leadwire for movement of the shoe when it is in service. Use mechanical retainers to secure the leadwire externally to the shoe, or pot the leadwire in place using epoxy or another suitable potting compound.

NOTE: Where reference is made to bearing shoes, the above procedure can be used with other types of bearings.

4. Special Conditions of Use

Maximum voltage: ≤ 30 V

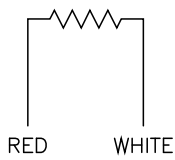
5. Electrical Data

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

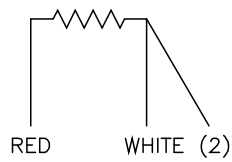
6. Electrical Connections

SCHEMATIC DIAGRAMS

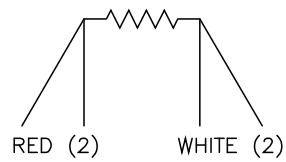
2-LEAD MODEL



3-LEAD MODEL



4-LEAD MODEL



7. Marking Example

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| <p>MINCO Minneapolis, MN USA Model: S209968 Lot batch: 123456-*-*-001  II 3 G Ex nA IIC Gc U</p> |
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