

Instructions: S207927 Increased Safety Temperature Detector

Ex II 2 G Ex eb II Gb
CSA Ex e IIC Gb

SPI 00-0756 Rev B (Document 1669536)

1. Description

These temperature detectors are designed to be installed in various locations.

- Operating temperature range: -60°C to +230°C
- S207927 models are available for 3- or 4-wire measurement circuits and with single or dual resistance temperature detector (RTD) elements.

2. Attestation of Conformity

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

Resistance Temperature Detector Type: S207927.

The product defined above is in conformity with the following relevant legislation:

ATEX Directive 2014/34/EU

EN 60079-0:2009* Explosive atmospheres - Part 0: Equipment - General requirements

EN 60079-7:2007* Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

CAN/CSA C22.2 No. 60079-0:11 Explosive atmospheres - Part 0: Equipment - General requirements

CAN/CSA C22.2 No. 60079-7:12 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

**NOTE: The harmonized standard EN 60079-0:2012+A11:2013 has been compared to the standard used for certification purposes and no changes in the "state of the art" apply to the product. The harmonized standard EN 60079-7:2015 has been compared to the standard used for certification purposes and no changes in the "state of the art" apply to the product.*

Certificate CSA 12.2533905

Certificate DEKRA 12ATEX0005 U

DEKRA Certification B.V. (0344)

Meander 1051

6825 MJ Arnhem

The Netherlands

 23 October 2020

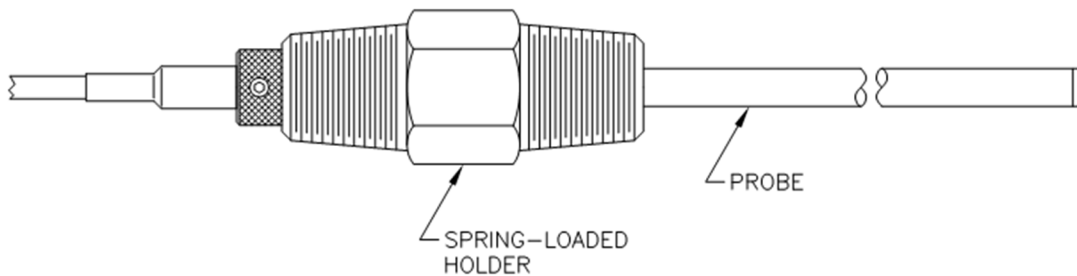
Rob Bohland, Ex Authorized Person

Minco Products, Inc

7300 Commerce Lane

Minneapolis, MN 55432 USA

3. Installation Instructions



These temperature detectors are designed to be installed in many different configurations. The RTD is typically installed by sliding through the opening of a compression fitting or spring-loaded probe holder. The sensing end of the probe is typically immersed in a fluid or a dry well.

The temperature detector must be installed in such a way that it is protected against mechanical danger.

The leads of the Resistance Temperature Detector, for connection to the measuring circuit, must be connected to suitable Ex e terminals in a suitable Ex e enclosure.

4. Special Conditions of Use

Maximum voltage: $\leq 30\text{ V}$

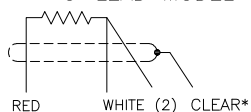
5. Electrical Data

Measuring current: $\leq 5\text{ mA}$
 Power (under fault conditions): $\leq 0.49\text{ W}$
 Test voltage dielectric strength test: 500 Vrms , duration 1 minute

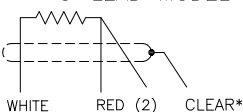
6. Electrical Connections

SINGLE SCHEMATIC DIAGRAMS

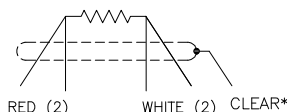
Z = 3-LEAD MODEL



W = 3-LEAD MODEL

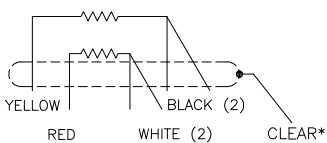


X = 4-LEAD MODEL

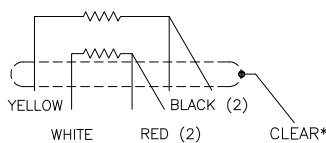


DUAL SCHEMATIC DIAGRAMS

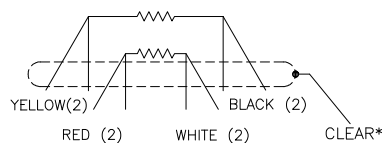
Z = 3-LEAD MODEL



W = 3-LEAD MODEL



X = 4-LEAD MODEL



*Cable shield and clear insulated drainwire used on CS leadwire coverings only.

7. Marking Example

